



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 139487

TO: Terra Gibbs
Location: REM-2D10/2C18
Art Unit: 1635
Friday, December 03, 2004
Case Serial Number: 10/024369

From: Paul Schulwitz
Location: Biotech-Chem Library
REM-1A65
Phone: (571)272-2527

paul.schulwitz@uspto.gov

Search Notes

Examiner Gibbs,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-2527



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SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is ____.

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

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Schreiber, David

From: Gibbs, Terra
Sent: Tuesday, November 16, 2004 10:15 AM
To: Schreiber, David
Subject: Sequence search request...

Hi David,

I have another request for a score over length search:

I need a length limited nucleotide sequence search of nucleobases 1018-1037 of SEQ ID NO:3 in USSN 10/024,369, where the returns are rank ordered based on the score over length/ratio as we've discussed.

I need the lengths limited to hits between 8 and 50 nucleotides, and I'll take as many hits as you can import into excel (64,000?), and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not. I also need the interference databases searched.

*Terra Cotta Gibbs, Ph.D.
Art Unit 1635
Remsen Building 2D10
Mailbox 2C18
571-272-0758*

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Comugen Ltd.

OW nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:38:34 / Search time 0.001 Seconds
(without alignments)
37.240 Million cell updates/sec

Title: us-10-024-369-3

Perfect score: 20
Sequence: 1 cttctgcacgaagagtggtg 20

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 88 seqs, 931 residues

Total number of hits satisfying chosen parameters: 176

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 88 summaries

Database: rgedb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	12	60.0	15	1	BD061440
2	10	50.0	11	1	ACCESION:BD061440
3	10	50.0	11	1	ACCESION:AX623364
4	9.4	47.0	11	1	ACCESION:AX630785
5	9.4	47.0	11	1	ACCESION:CO835700
6	9.4	47.0	11	1	ACCESION:AX472203
7	9.4	47.0	11	1	ACCESION:BD238992
8	9.4	47.0	11	1	ACCESION:BD238992
9	9.4	47.0	11	1	ACCESION:BD238992
10	9.4	47.0	11	1	ACCESION:BD238992
11	9.4	47.0	11	1	ACCESION:BD238992
12	9.4	47.0	11	1	ACCESION:BD238992
13	9.4	47.0	11	1	ACCESION:BD238992
14	9.4	47.0	11	1	ACCESION:BD238992
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16	9.4	47.0	11	1	ACCESION:BD238992
17	9.4	47.0	11	1	ACCESION:BD238992
18	9.4	47.0	11	1	ACCESION:BD238992
19	9.4	47.0	11	1	ACCESION:BD238992
20	9.4	47.0	11	1	ACCESION:BD238992
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22	9.4	47.0	11	1	ACCESION:BD238992
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35	8.4	42.0	11	1	AR171617	ACCESION:AR171617
36	8.4	42.0	11	1	BD243207	ACCESION:BD243207
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38	8.4	42.0	11	1	CO833231	ACCESION:CO833231
39	8.4	42.0	11	1	CO835108	ACCESION:CO835108
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81	8.4	42.0	11	1	CO837792	ACCESION:CO837792
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ALIGNMENTS

RESULT 1
BD061440/c
LOCUS
DEFINITION
ACCESION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS

BD061440
Method for selectively separating living cell expressed with
specific gene.
BD061440.1 GI:22607046
JP 2001286285-A/2.
synthetic construct
artificial sequences.
1 (bases 1 to 15)
Ishibashi, K. and Tsuji, A.

15 bp DNA linear PAT 27-AUG-2002

TITLE Method for selectively separating living cell expressed with specific gene
JOURNAL Patent: JP 2001286285-A 2 16-OCT-2001;
LABORATORY OF MOLECULAR BIOPHOTOONICS
COMMENT OS Artificial Sequence
PN JP 2001286285-A/2
PD 16-OCT-2001
PR 28-APR-2000 JP 2000130793
PI KANAME ISHIBASHI AKIHIKO TSUJI
PC C12N15/09, C12N1/02, C12N5/10, C12Q1/68, G01N33/48, G01N33/53, PC
G01N33/566, (C12N1/02, C12R1:91), (C12Q1/68, C12R1:91), C12N15/00,
PC G01N33/58// (C12N1/02, C12R1:91), (C12Q1/68, C12R1:91), C12N15/00,
CC C12N5/00
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source 1. .15
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Best Local Similarity 100.0%; Pred. No. 2.1;
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Qy 1022 TGCCCAAGAGG 1033
Db 14 TGCCCAAGAGG 3

RESULT 2
AX623364/c 11 bp DNA linear PAT 21-FEB-2003
LOCUS Sequence 405 from Patent WO02053774.
DEFINITION AX623364
ACCESSION AX623364
VERSION AX623364.1 GI:28451305
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 405 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source 1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
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Qy 1024 CCCAAGAGG 1033
Db 10 CCCAAGAGG 1

RESULT 3
AX630785/c 11 bp DNA linear PAT 21-FEB-2003
LOCUS Sequence 7826 from Patent WO02053774.
DEFINITION AX630785
ACCESSION AX630785
VERSION AX630785.1 GI:28458825
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1
AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 405 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7826 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Qy 1024 CCCAAGAGG 1033
Db 10 CCCAAGAGG 1

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LOCUS Sequence 758 from Patent WO2004059001.
DEFINITION CQ835700
ACCESSION CQ835700
VERSION CQ835700.1 GI:50835234
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1
AUTHORS Petersohn, D., Schlotmann, K., Gassenmeier, T., Holtkoetter, O.,
Conradt, M. and Hofmann, K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 758 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source 1. .11
/organism="Homo sapiens"
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Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1021 CTGCCCTAGAA 1031
Db 1 CTGCCCTAGAA 11

RESULT 5
AX472203 11 bp DNA linear PAT 09-AUG-2002
LOCUS Sequence 194 from Patent WO02053775.
DEFINITION AX472203
ACCESSION AX472203
VERSION AX472203.1 GI:22207240
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1
AUTHORS Huster, E., Haberl, M. and Wojnowski, L.
TITLE Identification of the genetic determinants of the polymorphic
JOURNAL cyp3a5 expression
PATENT: WO 02053775-A 194 11-JUL-2002;
EPIDAURE BIOTECHNOLOGIE AG (DE)
FEATURES
source 1. .11
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QY 1020 TCTGCCCAAGA 1030
Db 1 TCTGCCCAAGA 11

RESULT 6
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LOCUS
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238992
VERSION BD238992.1 GI:33048762
KEYWORDS JP 2002534056-A/410.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Robert, B.L. and Shankara, S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 410 15-OCT-2002;
GENZYME CORP

COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/410
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039, 19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041, 19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997, 19-JUN-1998 US 60/090079 PR
12-JUN-1998 US 60/090035, 19-JUN-1998 US 60/089993 PR
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19-JUN-1998 US 60/090076, 19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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FT Location/Qualifiers
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QY 1029 GAAGGTGGG 1037
Db 1 GAAGGTGGG 9

RESULT 7
BD239512
LOCUS
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239512
VERSION BD239512.1 GI:33049282
KEYWORDS JP 2002534056-A/930.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Robert, B.L. and Shankara, S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1231 15-OCT-2002;
GENZYME CORP

DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239512
VERSION BD239512.1 GI:33049282
KEYWORDS JP 2002534056-A/930.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Robert, B.L. and Shankara, S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 930 15-OCT-2002;
GENZYME CORP

COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/930
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039, 19-JUN-1998 US 60/090040 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10
FT Location/Qualifiers
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1..10 /organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

FEATURES
source
1..10 Location/Qualifiers
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1..10 /organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1019 TTCTGCCCA 1027
Db 2 TTCTGCCCA 10

RESULT 8
BD239813
LOCUS
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239813
VERSION BD239813.1 GI:33049583
KEYWORDS JP 2002534056-A/1231.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Robert, B.L. and Shankara, S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1231 15-OCT-2002;
GENZYME CORP

```
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1231
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
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19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
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PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
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PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
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Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGTGG 1036
Db 2 AGAAGTGG 10

RESULT 9
LOCUS C0836692 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 1750 from Patent WO2004059001.
ACCESSION C0836692
VERSION C0836692.1 GI:50836226
KEYWORDS
SOURCE
. Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Schloemann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 1750 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2 AGAAGTGG 10

COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1231
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
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08-DEC-1998 US 60/111715
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PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
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FEATURES
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGTGG 1036
Db 2 AGAAGTGG 10

RESULT 10
LOCUS AR353840/c 11 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 15 from patent US 6593111.
ACCESSION AR353840
VERSION AR353840.1 GI:33759907
KEYWORDS
SOURCE
. Unknown.
ORGANISM
Unknown.
Unclassified.
REFERENCE
1 (bases 1 to 11)
AUTHORS
Bartic,R.S. and Young,B.
TITLE Directional assembly of large viral genomes and chromosomes
JOURNAL Patent: US 6593111-A 15 15-JUL-2003;
Henkel Kommanditgesellschaft auf Aktien (DE)
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location/Qualifiers
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Query Match 45.0%; Score 9; DB 1; Length 11;
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1025 CCAAGGAGG 1033
Db 10 CCAAGGAGG 2

RESULT 11
LOCUS AX625163 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 2204 from Patent WO2053774.
ACCESSION AX625163
VERSION AX625163.1 GI:28453104
KEYWORDS
SOURCE
. Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 2204 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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location/Qualifiers
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1026
Db 9 CTTCTGCC 1

RESULT 12
LOCUS AX632584/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9626 from Patent WO2053774.
ACCESSION AX632584
VERSION AX632584.1 GI:28468199
KEYWORDS
SOURCE
. Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
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REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 9626 11-JUN-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1018 CTTCTGCCC 1026
Db 9 CTTCTGCCC 1
RESULT 13
LOCUS AR349259 12 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 6 from patent US 6583986.
ACCESSION AR349259
VERSION AR349259.1 GI:33749984
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Scotti,W.J., Stibley,K., Ovadia,S., Kimball,S. and Falvo,B.
TITLE Method and apparatus for managing thermal energy emissions
JOURNAL Patent: US 6583986-A 6 24-JUN-2003;
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/mol_type="genomic DNA"
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Best Local Similarity 100.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1023 GCCCAAGAA 1031
Db 10 GCCCAAGAA 2
RESULT 14
LOCUS AR349261 12 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 8 from patent US 6583986.
ACCESSION AR349261
VERSION AR349261.1 GI:33749986
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Scotti,W.J., Stibley,K., Ovadia,S., Kimball,S. and Falvo,B.
TITLE Method and apparatus for managing thermal energy emissions
JOURNAL Patent: US 6583986-A 8 24-JUN-2003;
FEATURES Location/Qualifiers
source 1. .12
/organism="unknown"
/mol_type="genomic DNA"
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Best Local Similarity 100.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1023 GCCCAAGAA 1031
Db 10 GCCCAAGAA 2

Db 10 GCCCAAGAA 2
RESULT 15
LOCUS A92569 10 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 10 from Patent WO9812320.
ACCESSION A92569
VERSION A92569.1 GI:6741228
KEYWORDS
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Stoecklin,E. and Groner,B.
TITLE NUCLEIC ACID CONSTRUCT CODING FOR A PROTEIN COMPLEX FROM A STAT
JOURNAL PROTEIN AND A NUCLEAR RECEPTOR AND ITS USE
Patent: WO 9812320-A 10 26-MAR-1998;
STOECKLIN ELISABETH (CH); GRONER BERND (CH)
FEATURES Location/Qualifiers
source 1. .10
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QY 1022 TGCCCAAGAA 1031
Db 1 TTCCCAAGAA 10
RESULT 16
LOCUS AR043677 10 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 47 from patent US 5814517.
ACCESSION AR043677
VERSION AR043677.1 GI:5964685
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Seidel,H.,Martin. and Lamb,I.,Peter.
TITLE DNA spacer regulatory elements responsive to cytokines and methods
JOURNAL Patent: US 5814517-A 47 29-SEP-1998;
FEATURES Location/Qualifiers
source 1. .10
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1022 TGCCCAAGAA 1031
Db 1 TTCCCAAGAA 10
RESULT 17
LOCUS BD238844 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238844
VERSION BD238844.1 GI:33048614
KEYWORDS UP 2002534056-A/262.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 (bases 1 to 10)
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 262 15-OCT-2002;
GENZYME CORP

COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/262
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749 60/090039,19-JUN-1998 US 60/090040 PR
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08-DEC-1998 US 60/111715
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C12N1/19,
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PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
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Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
Db 10 TGCCCAAGCA 1

RESULT 18
BD239019/c 10 bp DNA linear PAT 17-JUL-2003
LOCUS BD239019
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239019
VERSION BD239019.1 GI:33048789
KEYWORDS JP 2002534056-A/437.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 437 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/437
PD 15-OCT-2002
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA

19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
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PI BRUCE L ROBERTS,SRINIVAS SHANKARA

REFERENCE 1 (bases 1 to 10)
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 2081 15-OCT-2002;
GENZYME CORP

COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/2081
PD 15-OCT-2002
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PI BRUCE L ROBERTS,SRINIVAS SHANKARA

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Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1036
Db 10 AAGAGGTGG 1

RESULT 19
BD240663 10 bp DNA linear PAT 17-JUL-2003
LOCUS BD240663
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240663
VERSION BD240663.1 GI:33050433
KEYWORDS JP 2002534056-A/2081.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 2081 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/2081
PD 15-OCT-2002
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA

PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N33/00,
PC C12N15/00,C12N5/00,C12N15/00
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/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAGGTGGG 1037
DB 1 AGAGGTGGG 10

RESULT 20
LOCUS CQ766709 10 bp DNA linear PAT 03-MAR-2004
DEFINITION Sequence 65 from Patent WO2004005541.
ACCESSION CQ766709
VERSION CQ766709.1 GI:44908939
KEYWORDS
SOURCE
ORGANISM
synthetic construct
artificial sequences.
REFERENCE
1
AUTHORS van Broeckhoven,C., de Jonghe,P., Timmerman,V. and Verhoeven,K.
TITLE Diagnostic tests for the detection of peripheral neuropathy
JOURNAL Patent: WO 2004005541-A 65 15-JAN-2004;
Vlaams Internativersitair Instituut voor Biotechnologie vzw, w. (BE)
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LOCATION/Qualifiers
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/db_xref="taxon:32630"
/note="3-intron/exon, exon 4, gene RAB7"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAGGTGGG 1037
DB 1 AGAGGTGGG 10

RESULT 21
LOCUS AR303500 10 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 225 from patent US 6544736.
ACCESSION AR303500
VERSION AR303500.1 GI:11692276
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.
REFERENCE
1 (bases 1 to 10)
AUTHORS Shimamoto,A., Furutachi,Y., Shibata,Y., Funaki,H., Ohara,E. and
Watabiki,M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 225 08-APR-2003;
FEATURES
LOCATION/Qualifiers
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/organism="unknown"

/mol_type="genomic DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCAAGA 1030
DB 10 CTGCTCAGA 1

RESULT 22
LOCUS AX152798 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 713 from Patent WO0138577.
ACCESSION AX152798
VERSION AX152798.1 GI:14534449
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 713 31-MAY-2001;
The Johns Hopkins University (US)
FEATURES
LOCATION/Qualifiers
1. .10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAGAAG 1032
DB 1 GCACAGAAG 10

RESULT 23
LOCUS AX301616 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 330 from Patent WO0185941.
ACCESSION AX301616
VERSION AX301616.1 GI:17382699
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Patent: WO 0185941-A 330 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES
LOCATION/Qualifiers
1. .10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAGAAG 1032
DB 1 GCACAGAAG 10

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RESULT 24
AX374630/c      10 bp   DNA      linear      PAT 01-MAR-2002
LOCUS           Sequence 51 from Patent WO0210454.
DEFINITION      AX374630
ACCESSION       AX374630
VERSION         AX374630.1 GI:19169527
KEYWORDS
SOURCE          Homo sapiens (human)
ORGANISM        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
  1 Choi, J.Y., Koshiy, B., Kiem, S. and Stephens, J.C.
    Haplotypes of the alas2 gene
    Patent: WO 0210454-A 51 07-FEB-2002;
    Genaisance Pharmaceuticals, Inc. (US)
FEATURES
  source
    1..10
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1023 GCCCAGAG 1032
Db 10 GCCCAGAGTG 1

RESULT 25
AX805907      10 bp   DNA      linear      PAT 25-NOV-2003
LOCUS           Sequence 53 from Patent WO03060163.
DEFINITION      AX805907
ACCESSION       AX805907
VERSION         AX805907.1 GI:38522818
KEYWORDS
SOURCE          synthetic construct
ORGANISM        synthetic construct
artificial sequences.

REFERENCE
  1 van Eijk, M.J. and van Schaik, C.
    Discrimination and detection of target nucleotide sequences using
    mass spectrometry
    Patent: WO 03060163-A 53 24-JUL-2003;
    Keygene N.V. (NL)
FEATURES
  source
    1..10
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    /mol_type="unassigned DNA"
    /db_xref="taxon:32630"
    /note="stuffer sequence"

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1028 AGAAGGTGGG 1037
Db 1 AGAGGTGGG 10

RESULT 26
BD161343/c      10 bp   DNA      linear      PAT 17-JAN-2003
LOCUS           Human activated Th1 and Th2 cell expression genes.
DEFINITION      BD161343
ACCESSION       BD161343
VERSION         BD161343.1 GI:27867101
KEYWORDS        JP 2002186482-A/165;
SOURCE          Homo sapiens (human)
ORGANISM        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```

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Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
  1 (bases 1 to 10)
  Nagai, S., Matsushima, K. and Hashimoto, S.
  Human activated Th1 and Th2 cell expression genes
  Patent: JP 2002186482-A 165 02-JUL-2002;
  JOURNAL       JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT
  OS Homo sapiens (human)
  PN JP 2002186482-A/165
  PD 02-JUL-2002
  PF 19-DEC-2000 JP 2000385816
  PI SHIGEMORI NAGAI, KOJI MATSUSHIMA, SHINICHI HASHIMOTO PC
  C12N15/09, C07K14/47, C07K16/18, C12P21/08, C12N15/00 CC Human
  activated Th1 and Th2 cell expression genes FH Key
  Location/Qualifiers
    FT source
      1..10
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FEATURES
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    /organism="Homo sapiens"
    /mol_type="genomic DNA"
    /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1019 TTCTGCCCA 1028
Db 10 TTCTGCCCA 1

RESULT 27
BD166511      10 bp   DNA      linear      PAT 17-JAN-2003
LOCUS           Human liver disease-expressing genes.
DEFINITION      BD166511
ACCESSION       BD166511
VERSION         BD166511.1 GI:27872323
KEYWORDS        JP 2002209591-A/56.
SOURCE          unidentified
ORGANISM        unidentified
unclassified.

REFERENCE
  1 (bases 1 to 10)
  Matsushima, K., Hashimoto, S., Kaneko, S. and Yamashita, T.
  Human liver disease-expressing genes
  Patent: JP 2002209591-A 56 30-JUL-2002;
  JOURNAL       JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT
  OS Homo sapiens (human)
  PN JP 2002209591-A/56
  PD 30-JUL-2002
  PF 19-JAN-2001 JP 2001012328
  PI KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO PI
  YAMASHITA
  PC C12N15/09, C07K14/47, C07K16/18, G01N33/15, G01N33/50//C12P21/02,
  PC C12P21/08,
  PC C12N15/00
  CC Human liver disease-expressing genes
  FH Key Location/Qualifiers
    FT source
      1..10
      /organism="Homo sapiens (human)".

FEATURES
  source
    1..10
    /organism="unidentified"
    /mol_type="genomic DNA"
    /db_xref="taxon:32644"

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1023 GCCCAGAG 1032
Db 1 GCCCAGAG 10
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RESULT 28
LOCUS AR074494 11 bp DNA linear PAT 28-AUG-2000
DEFINITION Sequence 73 from patent US 5955075.
ACCESSION AR074494
VERSION AR074494.1 GI:10001249
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Method of inhibiting tumor growth using antibodies to MN protein
JOURNAL Patent: US 5955075-A 73 21-SEP-1999;
FEATURES
SOURCE
/mol_type="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 29
LOCUS AR081174 11 bp DNA linear PAT 31-AUG-2000
DEFINITION Sequence 73 from patent US 5972353.
ACCESSION AR081174
VERSION AR081174.1 GI:10007902
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL MN proteins, polypeptides, fusion proteins and fusion polypeptides
JOURNAL Patent: US 5972353-A 73 26-OCT-1999;
FEATURES
SOURCE
/mol_type="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 30
LOCUS AR085371 11 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 73 from patent US 5981711.
ACCESSION AR085371
VERSION AR085371.1 GI:10012140
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL MN-specific antibodies and hybridomas
JOURNAL Patent: US 5981711-A 73 09-NOV-1999;
FEATURES
SOURCE
/mol_type="unknown"
/mol_type="unassigned DNA"

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/mol_type="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 31
LOCUS AR088119 11 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 73 from patent US 5989838.
ACCESSION AR088119
VERSION AR088119.1 GI:10014882
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL Immunological methods of detecting MN proteins and MN polypeptides
JOURNAL Patent: US 5989838-A 73 23-NOV-1999;
FEATURES
SOURCE
/mol_type="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 32
LOCUS AR104278 11 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 73 from patent US 6093548.
ACCESSION AR104278
VERSION AR104278.1 GI:12816986
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL Detection and quantitation of MN-specific antibodies
JOURNAL Patent: US 6093548-A 73 25-JUL-2000;
FEATURES
SOURCE
/mol_type="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 33
LOCUS AR143540 11 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 73 from patent US 6204370.
ACCESSION AR143540

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VERSION      ARI43540.1  GI:15104826
KEYWORDS
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 11)
AUTHORS     Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE       MN gene and protein
JOURNAL     Patent: US 6204370-A 73 20-MAR-2001;
FEATURES
SOURCE       1..11
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 34
LOCUS      ARI71446                      11 bp  DNA      linear  PAT 17-DEC-2001
DEFINITION Sequence 73 from patent US 6297041.
ACCESSION  ARI71446
VERSION    ARI71446.1  GI:17910396
KEYWORDS
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 11)
AUTHORS   Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE     MN gene and protein
JOURNAL   Patent: US 6297041-A 73 02-OCT-2001;
FEATURES
SOURCE     1..11
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 35
LOCUS      ARI71617                      11 bp  DNA      linear  PAT 17-DEC-2001
DEFINITION Sequence 73 from patent US 6297051.
ACCESSION  ARI71617
VERSION    ARI71617.1  GI:17910567
KEYWORDS
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 11)
AUTHORS   Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE     MN gene and protein
JOURNAL   Patent: US 6297051-A 73 02-OCT-2001;
FEATURES
SOURCE     1..11
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10
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QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 36
LOCUS      BD243207                      11 bp  DNA      linear  PAT 17-JUL-2003
DEFINITION MN gene and protein.
ACCESSION  BD243207
VERSION    BD243207.1  GI:33052977
KEYWORDS  JP 2002528085-A/56.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
REFERENCE  1 (bases 1 to 11)
AUTHORS   Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE     MN gene and protein
JOURNAL   Patent: JP 2002528085-A 56 03-SEP-2002;
INSTITUTE  OF VIROLOGY
COMMENT    OS Homo sapiens (human)
           PN JP 2002528085-A/56
           PD 03-SEP-2002
           PR 22-OCT-1999 JP 2000578465
           PR 23-OCT-1998 US 09/177776,23-OCT-1998 US 09/178115 PI
           JAN ZAVADA, SILVIA PASTOREKOVA, JAROMIR PASTOREK PC
           C12N15/09,A61K38/00,A61K39/395,A61K39/395,A61K48/00,A61P35/00, PC
           C07K14/47,
           PC C12Q1/02,G01N33/566/(C12Q1/02,C12RI:91),C12N15/00,A61K37/02
           CC MN gene and protein
           FH Key
           FT source
           Location/Qualifiers
             1..11
               /organism="Homo sapiens (human)".
             /mol_type="genomic DNA"
             /db_xref="taxon:9606"

FEATURES
SOURCE     1..11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 37
LOCUS      CO833089                      11 bp  DNA      linear  PAT 29-JUL-2004
DEFINITION Sequence 460 from Patent WO2004059002.
ACCESSION  CO833089
VERSION    CO833089.1  GI:50832696
KEYWORDS
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
REFERENCE  1
AUTHORS   Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
           Contrdt M. and Hofmann,K.
           Method for determining the homeostasis of hairy skin
           Patent: WO 2004059002-A 460 15-JUL-2004;
           Henkel Kommanditgesellschaft auf Aktien (DE)
           Location/Qualifiers
             1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"
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Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1026 CAGAGAGTG 1035
DB 11 CCAGAGAGTG 2

RESULT 38
CO833231/c 11 bp DNA linear PAT 29-JUL-2004
LOCUS Sequence 602 from Patent WO2004059002.
DEFINITION CO833231
ACCESSION CO833231
VERSION GI:50832838
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining the homeostasis of hairy skin
JOURNAL Patent: WO 2004059002-A 602 15-JUL-2004;
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1021 CTGCCCAAGA 1030
DB 10 CTGCCCAAAA 1

RESULT 39
CO835108 11 bp DNA linear PAT 29-JUL-2004
LOCUS Sequence 166 from Patent WO2004059001.
DEFINITION CO835108
ACCESSION CO835108
VERSION GI:50834642
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 166 15-JUL-2004;
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1023 GCCCAAGAG 1032
DB 1 GCACCAAGAG 10

RESULT 40
CO835129 11 bp DNA linear PAT 29-JUL-2004
LOCUS Sequence 187 from Patent WO2004059001.
DEFINITION CO835129
ACCESSION CO835129
VERSION GI:50834663
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 187 15-JUL-2004;
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGTGG 1036
DB 2 AAGAGGTGG 11

RESULT 41
CO836261 11 bp DNA linear PAT 29-JUL-2004
LOCUS Sequence 1319 from Patent WO2004059001.
DEFINITION CO836261
ACCESSION CO836261
VERSION GI:50835795
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 1319 15-JUL-2004;
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1021 CTGCCCAAGA 1030
DB 2 CTGCCCAAGA 11

RESULT 42
CO837388 11 bp DNA linear PAT 29-JUL-2004
LOCUS Sequence 2446 from Patent WO2004059001.
DEFINITION CO837388
ACCESSION CO837388
VERSION GI:50836922
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
Petersohn,D., Schlotmann,K., Gassemeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
Method for determining markers of human facial skin
Patent: WO 2004059001-A 2446 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGGTGGG 1037
11 AGAAGGTGGG 2

RESULT 43
LOCUS CO837393 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 2451 from Patent WO2004059001.
ACCESSION CO837393
VERSION CO837393.1 GI:50836927
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
Petersohn,D., Schlotmann,K., Gassemeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
Method for determining markers of human facial skin
Patent: WO 2004059001-A 2451 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAGAGAG 1032
2 GCCCAGAGAG 11

RESULT 44
LOCUS CO837792 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 2850 from Patent WO2004059001.
ACCESSION CO837792
VERSION CO837792.1 GI:50837326
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
Petersohn,D., Schlotmann,K., Gassemeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
Method for determining markers of human facial skin
Patent: WO 2004059001-A 2850 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
Location/Qualifiers

REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES

source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1036
10 AAGAGGTGG 1

RESULT 45
LOCUS I34822 11 bp DNA linear PAT 13-MAY-1997
DEFINITION Sequence 15 from patent US 5595673.
ACCESSION I34822
VERSION I34822.1 GI:2087790
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
1 (bases 1 to 11)
REFERENCE Keating,M.T., Curran,M.E. and Wang,Q.
AUTHORS Long QT syndrome genes
TITLE Patent: US 5595673-A 15 04-FEB-1997;
JOURNAL Location/Qualifiers
FEATURES
source
1. .11
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGGTGGG 1037
1 AGAAGGTGGG 10

RESULT 46
LOCUS AX412934 11 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 698 from Patent WO0222675.
ACCESSION AX412934
VERSION AX412934.1 GI:21445392
KEYWORDS
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eustosids II; Brassicales; Brassicaceae; Arabidopsis.
1
Glazebrook,J., Wang,X., Dangl,J.L., Eulgem,T. and Zhu,T.
Plant genes, the expression of which are altered by pathogen
infection
Patent: WO 0222675-A 698 21-MAR-2002;
S yngenta Participations AG (CH) ; UNIVERSITY OF NORTH CAROLINA AT
CHAPEL HILL (US) ; Glazebrook, Jan (US) ; Wang, Xun (US) ; Dangl,
Jeffrey L. (US) ; Eulgem, Thomas (US)
Location/Qualifiers
1. .11
/organism="Arabidopsis thaliana"
/mol_type="unassigned DNA"
/db_xref="taxon:3702"

REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1019 TTCTGCCAA 1028

Db 11 TTTTGCCCAA 2

RESULT 47
AX470593
LOCUS AX470593 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 170 from Patent WO02053773.
ACCESSION AX470593
VERSION AX470593.1 GI:22205718
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 170 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAAAGTGG 1036
Db 2 AAGAAAGTGG 11

RESULT 48
AX471678/c
LOCUS AX471678 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1255 from Patent WO02053773.
ACCESSION AX471678
VERSION AX471678.1 GI:22206803
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 1255 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAGTGG 1035
Db 11 CCAGAAGTGG 2

RESULT 49
AX471682/c
LOCUS AX471682 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1259 from Patent WO02053773.
ACCESSION AX471682
VERSION AX471682.1 GI:22206807
KEYWORDS

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 1259 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAGTGG 1035
Db 11 CAATAAGTGG 2

RESULT 50
AX623377
LOCUS AX623377 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 418 from Patent WO02053774.
ACCESSION AX623377
VERSION AX623377.1 GI:28451318
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 418 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAGTGG 1035
Db 2 CAAGAAAGTGG 11

RESULT 51
AX623396/c
LOCUS AX623396 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 437 from Patent WO02053774.
ACCESSION AX623396
VERSION AX623396.1 GI:28451337
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 437 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source location/Qualifiers
1. .11

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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGG 1037
      |||||
      11 AGAAGCGCGG 2

RESULT 52
LOCUS   AX623509          11 bp   DNA       linear   PAT 21-FEB-2003
DEFINITION   Sequence 550 from Patent WO02053774.
ACCESSION   AX623509
VERSION     AX623509.1   GI:28451450
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS   1
            Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 550 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
            1..11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1027 AAGAAGTGG 1036
      |||||
      1 AAGAAGGTGG 10

RESULT 53
LOCUS   AX625581          11 bp   DNA       linear   PAT 21-FEB-2003
DEFINITION   Sequence 2622 from Patent WO02053774.
ACCESSION   AX625581
VERSION     AX625581.1   GI:28453522
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS   1
            Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 2622 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
            1..11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1027 AAGAAGTGG 1036
      |||||
      1 AAGAAGGTGG 10
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RESULT 54
LOCUS   AX626059/c        11 bp   DNA       linear   PAT 21-FEB-2003
DEFINITION   Sequence 3100 from Patent WO02053774.
ACCESSION   AX626059
VERSION     AX626059.1   GI:28454097
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS   1
            Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 3100 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
            1..11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGTGG 1037
      |||||
      11 AGAAGGTGG 2

RESULT 55
LOCUS   AX626126          11 bp   DNA       linear   PAT 21-FEB-2003
DEFINITION   Sequence 3167 from Patent WO02053774.
ACCESSION   AX626126
VERSION     AX626126.1   GI:28454164
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS   1
            Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 3167 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
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            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGTGG 1037
      |||||
      1 AGAAGGTGG 10

RESULT 56
LOCUS   AX626949/c        11 bp   DNA       linear   PAT 21-FEB-2003
DEFINITION   Sequence 3990 from Patent WO02053774.
ACCESSION   AX626949
VERSION     AX626949.1   GI:28454987
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
```


/db_xref="taxon:9606"

REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 3990 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1019 TTCTGCCCAA 1028
Db 10 TCCTGCCCAA 1

RESULT 57
LOCUS AX627089 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4130 from Patent WO02053774.
ACCESSION AX627089
VERSION AX627089.1 GI:28455127
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4130 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1022 TGCCCAAGAA 1031
Db 2 TGCCCAAGAA 11

RESULT 58
LOCUS AX627751 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4792 from Patent WO02053774.
ACCESSION AX627751
VERSION AX627751.1 GI:28455789
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4792 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"

/db_xref="taxon:9606"

REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4833 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAAGGTGG 1036
Db 10 AAGAAGGTGG 1

RESULT 59
LOCUS AX627792/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4833 from Patent WO02053774.
ACCESSION AX627792
VERSION AX627792.1 GI:28455830
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4833 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1026 CAGAAGGTG 1035
Db 11 CAGAAGGTG 2

RESULT 60
LOCUS AX627837/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4878 from Patent WO02053774.
ACCESSION AX627837
VERSION AX627837.1 GI:28455875
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4878 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAAGGTGG 1036
Db 10 AAGAAGGTGG 1

RESULT 61
LOCUS AX628191/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5232 from Patent WO02053774.
ACCESSION AX628191
VERSION AX628191.1 GI:28456229
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 5232 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1026 CAAGAGGTG 1035
Db 11 CAATAGGTG 2

RESULT 62
LOCUS AX628263/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5304 from Patent WO02053774.
ACCESSION AX628263
VERSION AX628263.1 GI:28456301
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 5304 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1019 TTCTGCCCAA 1028
Db 11 TTCTACCCAA 2

RESULT 63
LOCUS AX629947 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 6988 from Patent WO02053774.
ACCESSION AX629947
VERSION AX629947.1 GI:28457985
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6988 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1023 GCCCAGAG 1032
Db 1 GCACAGAG 10

RESULT 64
LOCUS AX630798 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7839 from Patent WO02053774.
ACCESSION AX630798
VERSION AX630798.1 GI:28458838
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7839 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1026 CAAGAGGTG 1035
Db 2 CAAGAAAGTG 11

RESULT 65
LOCUS AX630817/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7858 from Patent WO02053774.
ACCESSION AX630817
VERSION AX630817.1 GI:28458857
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7858 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
source
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGGTGG 1037
|||||
11 AGAAGGCGG 2

Db

RESULT 66
AX630930
LOCUS AX630930 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7971 from Patent WO02053774.
ACCESSION AX630930
VERSION AX630930.1 GI:28458972
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7971 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
Location/Qualifiers

FEATURES
source 1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1036
|||||
1 AAGGAGGTGG 10

Db

RESULT 67
AX632853/c
LOCUS AX632853 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9895 from Patent WO02053774.
ACCESSION AX632853
VERSION AX632853.1 GI:28468468
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 9895 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
Location/Qualifiers

FEATURES
source 1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1020 TGTGCCCAAG 1029
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11 TGTGCCCAAG 2

Db

RESULT 68
AX480947/c

LOCUS AX480947 9 bp DNA linear PAT 12-AUG-2002
DEFINITION Sequence 7 from Patent WO0246412.
ACCESSION AX480947
VERSION AX480947.1 GI:22217586
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1
AUTHORS Rebar,E., Jamieson,A., Liu,Q., Liu,P.Q., Wolfe,A., Eisenberg,S.P.
and Jarvis,E.
TITLE Regulation of angiogenesis with zinc finger proteins
JOURNAL Patent: WO 0246412-A 7 13-JUN-2002;
Sangamo Biosciences Inc. (US)
Location/Qualifiers

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source 1..9
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="target"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1020 TGTGCCCA 1027
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8 TGTGCCCA 1

Db

RESULT 69
AX668629
LOCUS AX668629 9 bp DNA linear PAT 26-MAR-2003
DEFINITION Sequence 2078 from Patent WO0242459.
ACCESSION AX668629
VERSION AX668629.1 GI:29291602
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1
AUTHORS Liu,Q.
TITLE Position dependent recognition of gnn nucleotide triplets by zinc
JOURNAL fingers
JOURNAL Patent: WO 0242459-A 2078 30-MAY-2002;
Sangamo Biosciences Inc. (US)
Location/Qualifiers

FEATURES
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="example target"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGG 1037
|||||
1 AAGGTGG 8

Db

RESULT 70
AX668630
LOCUS AX668630 9 bp DNA linear PAT 26-MAR-2003
DEFINITION Sequence 2079 from Patent WO0242459.
ACCESSION AX668630
VERSION AX668630.1 GI:29291603
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1

AUTHORS Liu, Q.
TITLE Position dependent recognition of gmn nucleotide triplets by zinc fingers
JOURNAL Patent: WO 0242459-A 2079 30-MAY-2002;
Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
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/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="example target DNA"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGG 1037
|||||
1 AAGGTGG 8

Db

RESULT 71
AX668813
LOCUS Sequence 2262 from Patent WO0242459. 9 bp DNA linear PAT 26-MAR-2003
DEFINITION AX668813
ACCESSION AX668813.1 GI:29291788
VERSION
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
artificial sequences.

REFERENCE 1
AUTHORS Liu, Q.
TITLE Position dependent recognition of gmn nucleotide triplets by zinc fingers
JOURNAL Patent: WO 0242459-A 2262 30-MAY-2002;
Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
source 1..9
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="example target DNA"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
|||||
2 AGAAGTG 9

Db

RESULT 72
AX668814
LOCUS Sequence 2263 from Patent WO0242459. 9 bp DNA linear PAT 26-MAR-2003
DEFINITION AX668814
ACCESSION AX668814 GI:29291789
VERSION
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
artificial sequences.

REFERENCE 1
AUTHORS Liu, Q.
TITLE Position dependent recognition of gmn nucleotide triplets by zinc fingers
JOURNAL Patent: WO 0242459-A 2263 30-MAY-2002;
Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
source 1..9
/organism="synthetic construct"
/mol_type="genomic DNA"

/db_xref="taxon:32630"
/note="example target DNA"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
|||||
2 AGAAGTG 9

Db

RESULT 73
AB012724/c
LOCUS Homo sapiens gene for endothelin-A receptor, cis_element region. 9 bp DNA linear PRI 30-JUN-1998
DEFINITION AB012724
ACCESSION AB012724.1 GI:3273319
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (sites)
Hosoda, K., Nakao, K., Tamura, N., Arai, H., Ogawa, Y., Suga, S., Nakaniishi, S., and Imura, H.
Organization, structure, chromosomal assignment, and expression of the gene encoding the human endothelin-A receptor
J Biol. Chem. 267 (26), 18797-18804 (1992)

REFERENCE 2 (sites)
JOURNAL 92406798
MEDLINE 1326535
PUBMED

REFERENCE 3 (sites)
AUTHORS Yamashita, J., Yoshimasa, T., Arai, H., Hiraoka, J., Takaya, K., Miyamoto, Y., Ogawa, Y., Itoh, H., and Nakao, K.
TITLE Identification of cis-elements of the human endothelin-A receptor gene and inhibition of the gene expression by the decoy strategy
J Biol. Chem. 273 (26), 15993-15999 (1998)
JOURNAL 98298101
MEDLINE 9632648
PUBMED

REFERENCE 3 (bases 1 to 9)
AUTHORS Yamashita, J., Yoshimasa, T., Arai, H., Itoh, H., and Nakao, K.
TITLE Direct Submission
JOURNAL Submitted (02-APR-1998) Jun Yamashita, Kyoto University Graduate School of Medicine, Department of Medicine and Clinical Science; 54 Shogoin Kawahara-cho, Sakyo-ku, Kyoto 606, Japan (E-mail:jun@kuhp.kyoto-u.ac.jp, Tel:81-75-751-3170, Fax:81-75-771-9452)

FEATURES Location/Qualifiers
source 1..9
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
misc_feature 1..9
/note="cis_element of the human endothelin-A receptor gene"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGG 1037
|||||
9 AAGGTGG 2

Db

RESULT 74
A15662/c
LOCUS oligonucleotide. 10 bp DNA linear PAT 10-FEB-1994
DEFINITION A15662
ACCESSION A15662.1 GI:489794
VERSION
KEYWORDS
SOURCE
synthetic construct

ORGANISM synthetic construct
artificial sequences.
REFERENCE 1 (bases 1 to 10)
AUTHORS Verrips,C.T., Ledebber,A.M., Edens,L., Klok,R. and Maat,J.
TITLE DNA sequences encoding various allelic forms of mature chaumatin,
recombinant plasmids comprising said DNA's and a process for their
preparation, bacterial cultures comprising said recombinant
plasmids, and method for producing mature chaumatin
Patent: EP 0054330-A 4 23-JUN-1982;
JOURNAL UNILEVER NV; UNILEVER PLC
FEATURES
source
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 GAAGTGG 1036
Db 9 GAAGTGG 2

RESULT 75
BD238780/c
LOCUS BD238780 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238780
VERSION BD238780.1 GI:33048550
KEYWORDS JP 2002534056-A/198.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 198 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/198
PD 15-OCT-2002
PR 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
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19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090036 PR
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19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1. .10
Location/Qualifiers
1. .10
/organism="Homo sapiens (human)".
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/organism="Homo sapiens (human)"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGTGG 1035
Db 9 AGAAGTGG 2

RESULT 77

/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1019 TTCTGCC 1026
Db 8 TTCTGCC 1

RESULT 76
BD238878/c
LOCUS BD238878 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238878
VERSION BD238878.1 GI:33048648
KEYWORDS JP 2002534056-A/296.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 296 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/296
PD 15-OCT-2002
PR 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1. .10
Location/Qualifiers
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/organism="Homo sapiens (human)".
/db_xref="taxon:9606"

FEATURES
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1. .10
/organism="Homo sapiens (human)"
/mol_type="genomic DNA"
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Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGTGG 1035
Db 9 AGAAGTGG 2

RESULT 77

BD238880/c
LOCUS BD238880 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238880.1 GI:33048650
VERSION UP 2002534056-A/298.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 298 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/298
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19',
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/566, PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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FT 1..10 /organism='Homo sapiens (human)'.
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source 1..10
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/db_xref='taxon:9606'
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY 1030 AAGGTGGG 1037
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Db 10 AAGGTGGG 3
RESULT 78
BD239283 10 bp DNA linear PAT 17-JUL-2003
LOCUS BD239283
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239283.1 GI:33049053
VERSION UP 2002534056-A/701.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1370 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/1370
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19',
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/566, PC
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PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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/mol_type='genomic DNA'
/db_xref='taxon:9606'

JOURNAL Patent: JP 2002534056-A 701 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/701
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19',
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/566, PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10
FT 1..10 /organism='Homo sapiens (human)'.
FEATURES
source 1..10
/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY 1018 CTTCTGCC 1025
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| | | | | | | | | |
Db 2 CTTCTGCC 9
RESULT 79
BD239952/c 10 bp DNA linear PAT 17-JUL-2003
LOCUS BD239952
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239952.1 GI:33049722
VERSION UP 2002534056-A/1370.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1370 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/1370
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19',
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/566, PC
G01N37/00,
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19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR
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19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L. ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N15/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
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QY 1018 CTTCTGCC 1025
Db 8 CTTCTGCC 1

RESULT 80
LOCUS BD240374
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240374
VERSION BD240374.1 GI:33050144
KEYWORDS JP 2002534056-A/1792.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
Robert, B.L., and Shankara, S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 1792 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/1792
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749
PI BRUCE L. ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
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Db 8 CAAAGAGC 1

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LOCUS BD240388
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240388
VERSION BD240388.1 GI:33050158
KEYWORDS JP 2002534056-A/1806.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
Robert, B.L., and Shankara, S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 1806 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/1806
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749
PI BRUCE L. ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N15/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
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19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L. ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N15/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1026 CAAAGAGC 1033
Db 8 CAAAGAGC 1

RESULT 81
LOCUS BD240388
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240388
VERSION BD240388.1 GI:33050158
KEYWORDS JP 2002534056-A/1806.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
Robert, B.L., and Shankara, S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 1806 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/1806
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749
PI BRUCE L. ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
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G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
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RESULT 82
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LOCUS BD240561 10 bp DNA linear PAT 17-JUL-2003

DEFINITION Preparation and use of superior vaccines.

ACCESSION BD240561

VERSION BD240561.1 GI:33050331

KEYWORDS JP 2002534056-A/1979.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

AUTHORS Roberts,B.L. and Shankara,S.

TITLE Preparation and use of superior vaccines

JOURNAL Patent: JP 2002534056-A 1979 15-OCT-2002;

COMMENT GENZYME CORP

OS Homo sapiens (human)

PN JP 2002534056-A/1979

PD 15-OCT-2002

PR 18-JUN-1999 JP 2000554749

PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR

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19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR

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19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR

08-DEC-1998 US 60/111715

PI BRUCE L ROBERTS,SRINIVAS SHANKARA

PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC C12N1/19,

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CC Preparation and use of superior vaccines

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I19168

LOCUS I19168 10 bp DNA linear PAT 07-OCT-1996

DEFINITION Sequence 31 from patent US 5502176.

ACCESSION I19168

VERSION I19168.1 GI:1599523

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 10)

AUTHORS Tenen,D.G., Pahl,H.L. and Burn,T.C.

TITLE Myeloid cell specific promoter

JOURNAL Patent: US 5502176-A 31 26-MAR-1996;

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LOCUS I19170 10 bp DNA linear PAT 07-OCT-1996

DEFINITION Sequence 33 from patent US 5502176.

ACCESSION I19170

VERSION I19170.1 GI:1599525

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 10)

AUTHORS Tenen,D.G., Pahl,H.L. and Burn,T.C.

TITLE Myeloid cell specific promoter

JOURNAL Patent: US 5502176-A 33 26-MAR-1996;

FEATURES Location/Qualifiers

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LOCUS AR303345 10 bp DNA linear PAT 12-JUN-2003

DEFINITION Sequence 70 from patent US 6544736.

ACCESSION AR303345

VERSION AR303345.1 GI:31692121

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 10)

AUTHORS Shimamoto,A., Furuchi,Y., Shibata,Y., Funaki,H., Ohara,E. and Watanaki,M.

TITLE Method for synthesizing cDNA from mRNA sample

JOURNAL Patent: US 6544736-A 70 08-APR-2003;

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ACCESSION AX152217
VERSION AX152217.1 GI:14533868
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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 132 31-MAY-2001;
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REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 1157 31-MAY-2001;
The Johns Hopkins University (US)
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DB 3 AGAAGGTG 10

RESULT 88
AX301610 10 bp DNA linear PAT 30-NOV-2001
LOCUS AX301610
DEFINITION Sequence 324 from Patent WO0185941.
ACCESSION AX301610

VERSION AX301610.1 GI:17382693
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE MYC targets
JOURNAL Patent: WO 0185941-A 324 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
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DB 2 CTCTGCCC 9

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Job time : 0.001 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using SW model

Run on: December 3, 2004, 11:40:33 ; Search time 0.001 Seconds
(without alignments)
83.680 Million cell updates/sec

Title: us-10-024-369-3

Perfect score: 20
Sequence: 1 cctctgcaccaagaagtggg 20

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Searched: 195 seqs, 2092 residues

Total number of hits satisfying chosen parameters: 390

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Database : rngdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	12	60.0	1 ABA96458	Human IL-2 probe S
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103	9	45.0	10 AAA16595	Human MN gene 5', d
104	9	45.0	10 AAA52514	Human MN gene intr
105	9	45.0	10 ABO87504	Human skin stress/
106	9	45.0	10 ABO87500	Human skin stress/

107	8.4	42.0	11	1	ABQ86415	Human skin stressor/
108	8.4	42.0	11	1	ABV66344	Human skin EST 413
109	8.4	42.0	11	1	ABV62764	Human skin EST 550
110	8.4	42.0	11	1	ABV70185	Human skin EST 797
111	8.4	42.0	11	1	ABV62651	Human skin EST 437
112	8.4	42.0	11	1	ABV67006	Human skin EST 479
113	8.4	42.0	11	1	ABV67047	Human skin EST 483
114	8.4	42.0	11	1	ABV64836	Human skin EST 262
115	8.4	42.0	11	1	ABV67092	Human skin EST 487
116	8.4	42.0	11	1	ABV67518	Human skin EST 530
117	8.4	42.0	11	1	ABV72108	Human skin EST 989
118	8.4	42.0	11	1	ABV62632	Human skin EST 418
119	8.4	42.0	11	1	ABV65381	Human skin EST 316
120	8.4	42.0	11	1	ABV67446	Human skin EST 523
121	8.4	42.0	11	1	ABV66204	Human skin EST 399
122	8.4	42.0	11	1	ABV65314	Human skin EST 310
123	8.4	42.0	11	1	ABV70072	Human skin EST 785
124	8.4	42.0	11	1	ABV69202	Human skin EST 698
125	8.4	42.0	11	1	ABV70053	Human skin EST 783
126	8.4	42.0	11	1	ADG88256	A. thaliana pathog
127	8.4	42.0	11	1	ADK41823	Human MN gene intr
128	8.4	42.0	11	1	ADQ35643	Human hair-bearing
129	8.4	42.0	11	1	ADQ35785	Human hair-bearing
130	8.4	42.0	11	1	ADQ34760	Human facial skin-
131	8.4	42.0	11	1	ADQ32076	Human facial skin-
132	8.4	42.0	11	1	ADQ34356	Human facial skin-
133	8.4	42.0	11	1	ADQ34361	Human facial skin-
134	8.4	42.0	11	1	ADQ33229	Human facial skin-
135	8.4	42.0	11	1	ADQ32097	Human facial skin-
136	8.4	42.0	8	1	AAT09397	5'-primer used for
137	8.4	42.0	8	1	AAT09546	3'-primer used for
138	8.4	42.0	8	1	AAT09415	3'-primer used for
139	8.4	42.0	8	1	ABO79568	Zinc finger protei
140	8.4	42.0	9	1	ABO71965	Zinc finger protei
141	8.4	42.0	9	1	ABO71964	Zinc finger protei
142	8.4	42.0	9	1	ABO71781	Zinc finger protei
143	8.4	42.0	9	1	ABO71780	Human VEGF-cargete
144	8.4	42.0	9	1	ACD06034	Human VEGF-cargete
145	8.4	42.0	9	1	ACD19256	Zinc finger target
146	8.4	42.0	9	1	ADA64108	Zinc finger target
147	8.4	42.0	9	1	ADA64291	Zinc finger target
148	8.4	42.0	9	1	ADA64292	Zinc finger target
149	8.4	42.0	9	1	ADA64107	Synthetic zinc fin
150	8.4	42.0	9	1	ADM22799	Synthetic zinc fin
151	8.4	42.0	9	1	ADM22984	Synthetic zinc fin
152	8.4	42.0	9	1	ADM22983	Synthetic zinc fin
153	8.4	42.0	9	1	ADM22800	Synthetic zinc fin
154	8.4	42.0	10	1	AAZ79378	Human dendritic ce
155	8.4	42.0	10	1	AAZ77868	Human dendritic ce
156	8.4	42.0	10	1	AAZ78273	Human dendritic ce
157	8.4	42.0	10	1	AAZ78942	Human dendritic ce
158	8.4	42.0	10	1	AAZ77770	Human dendritic ce
159	8.4	42.0	10	1	AAZ77870	Human dendritic ce
160	8.4	42.0	10	1	AAZ79364	Human dendritic ce
161	8.4	42.0	10	1	AAZ79551	Human dendritic ce
162	8.4	42.0	10	1	AAZ83134	Human dendritic ce
163	8.4	42.0	10	1	AAZ81919	Metastatic breast
164	8.4	42.0	10	1	AAZ84193	Metastatic breast
165	8.4	42.0	10	1	AAZ82122	Metastatic breast
166	8.4	42.0	10	1	AAZ83647	Metastatic breast
167	8.4	42.0	10	1	AAZ83647	Metastatic breast
168	8.4	42.0	10	1	AAZ83418	Metastatic breast
169	8.4	42.0	10	1	AAZ82784	Metastatic breast
170	8.4	42.0	10	1	AAZ85883	Metastatic breast
171	8.4	42.0	10	1	AAZ86535	Metastatic breast
172	8.4	42.0	10	1	AAZ81064	Metastatic breast
173	8.4	42.0	10	1	AAZ83296	Metastatic breast
174	8.4	42.0	10	1	AAZ84897	Metastatic breast
175	8.4	42.0	10	1	AAZ81128	Metastatic breast
176	8.4	42.0	10	1	AAZ83682	Metastatic breast
177	8.4	42.0	10	1	AAZ83851	Metastatic breast
178	8.4	42.0	10	1	AAZ79914	Human dendritic ce
179	8.4	42.0	10	1	AAH64317	Human ubiquitously
					AAH63292	Human colon epithe

180	8	40.0	10	1	AAE69638	Human IL1RA1pha ge
181	8	40.0	10	1	AAE69638	Yeast NORF gene SA
182	8	40.0	10	1	AAE69638	Yeast NORF gene SA
183	8	40.0	10	1	AAE69638	Yeast NORF gene SA
184	8	40.0	10	1	AAE69638	Yeast NORF gene SA
185	8	40.0	10	1	AAE69638	Yeast NORF gene SA
186	8	40.0	10	1	AAE69638	Yeast NORF gene SA
187	8	40.0	10	1	AAE69638	Yeast NORF gene SA
188	8	40.0	10	1	AAE69638	Yeast NORF gene SA
189	8	40.0	10	1	AAE69638	Yeast NORF gene SA
190	8	40.0	10	1	AAE69638	Yeast NORF gene SA
191	8	40.0	10	1	AAE69638	Yeast NORF gene SA
192	8	40.0	10	1	AAE69638	Yeast NORF gene SA
193	8	40.0	10	1	AAE69638	Yeast NORF gene SA
194	8	40.0	10	1	AAE69638	Yeast NORF gene SA
195	8	40.0	10	1	AAE69638	Yeast NORF gene SA

ALIGNMENTS

RESULT 1						
AAE62417/c						
ID	AAE62417	standard	DNA	20	BP.	
XX	AAE62417;					
AC	AAE62417;					
XX						
DT	06-OCT-2003	(first entry)				
XX						
DE	Human ABC transporter MHC I antisense oligonucleotide, ISIS 206598.					
XX						
KM	ABC transporter; ABCR; major histocompatibility complex; MHC; cytosolic;					
KW	hyperproliferative; autoimmune disorder; antisense gene therapy;					
KW	inflammation; tumour formation; immunosuppressive; antimicrobial; human;					
KW	phosphorothioate backbone; antisense; ss.					
XX						
OS	Homo sapiens.					
OS	Synthetic.					
XX						
EH	Key	Location/Qualifiers				
FT	modified_base	1..20				
FT		/tag= a				
FT		/mod_base= OTHER				
FT		/note= "Phosphorothioate backbone; All cytidines are 5-methylcytidines"				
FT	modified_base	1..5				
FT		/tag= b				
FT		/mod_base= OTHER				
FT	modified_base	16..20				
FT		/tag= c				
FT		/mod_base= OTHER				
FT		/note= "2-methoxyethyl nucleotides"				
XX						
PN	WC2003051309-A2.					
XX						
PD	26-JUN-2003.					
XX						
PF	12-DEC-2002; 2002MO-US040101.					
XX						
PR	17-DEC-2001; 2001US-00024369.					
XX						
PA	(ISIS-) ISIS PHARM INC.					
XX						
PI	Borchers AH, Ward DT, Freier SM;					
XX						
DR	WPI; 2003-577305/54.					
XX						
PT	New antisense compound that hybridizes and inhibits the nucleic acid					
PT	encoding ABC transporter major histocompatibility complex 1, for treating					
PT	diseases or conditions such as a hyperproliferative or autoimmune					
PT	disorder.					
XX						

PS Claim 3; Page 81; 112pp; English.

XX The invention relates to a compound targeted to a nucleic acid molecule
CC encoding ABC transporter (ABCT) major histocompatibility complex (MHC) 1
CC where the compound specifically hybridises with the nucleic acid molecule
CC and inhibits expression of ATM or specifically hybridises with at least a
CC portion of an active site on the nucleic acid molecule. The invention is
CC useful for inhibiting the expression of ATM in cells or tissues. The
CC invention is useful for treating an animal with hyperproliferative or
CC autoimmune disorder. The invention is useful for diagnostic,
CC therapeutics, prophylaxis, as research reagents and kits, for
CC distinguishing functions of various members of a biological pathway and
CC in antisense gene therapy. The invention is also useful prophylactically
CC e.g., to prevent or delay infection, inflammation or tumour formation.
CC The present sequence is an antisense oligo targeted to human ABC
CC transporter MHC 1 DNA. This sequence is used to illustrate the method of
CC the invention

SQ Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1018 CTTGCGCCAGAGGTGGG 1037
|||||
DB 20 CTTGCGCCAGAGGTGGG 1

RESULT 2

ABA96458/C
ID ABA96458 standard; DNA; 15 BP.

AC ABA96458;

DT 03-APR-2002 (first entry)

DE Human IL-2 probe SEQ ID NO 2.

XX Human, IL-2; IL-4; probe; ss.

OS Homo sapiens.

PN JP2001286285-A.

PD 16-OCT-2001.

PF 28-APR-2000; 2000JP-00130793.

PR 04-FEB-2000; 2000JP-00028117.

PA (BUNSHI BIOHOTONICS KENKYUSHO KK.

DR WPI; 2002-134187/18.

PT Selective separation of live cells expressing a specific gene.

PS Example; Page 9; 65pp; Japanese.

CC The invention relates to selectively separating live cells expressing a
CC specific gene and involves introducing a labelling agent which can label
CC a specific mRNA in the cells of a live cell group expressing the mRNA.
CC The method is used for selectively separating live cells expressing a
CC specific gene. The present sequence is that of a human IL-2 probe

XX Sequence 15 BP; 1 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 60.0%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1022 TGCCCAAGAGG 1033
|||||

DB 14 TGCCCAAGAGG 3

RESULT 3

AAF45929
ID AAF45929 standard; DNA; 15 BP.

AC AAF45929;

DT 30-MAR-2001 (first entry)

DE IGFBP2 oligonucleotide #768.

KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virocid; ophthalmological; keloid;
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.

XX Homo sapiens.

PN WO200078341-A1.

PD 28-DEC-2000.

PF 21-JUN-2000; 2000WO-AU000693.

PR 21-JUN-1999; 99US-0140345P.

PA (MURDOCH CHILDRENS RES INST.

PI Wright CJ, Werther GA, Edmondson SR;

DR WPI; 2001-041421/05.

PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.

PS Example 6; Page 39; 201pp; English.

CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia

SQ Sequence 15 BP; 4 A; 5 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 12;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1023 GCCCAAGAGGTGGG 1037
|||||

DB 1 GCCCAAGAGGTGGG 15
|||||

RESULT 4

```

AAF45927
ID AAF45927 standard; DNA; 15 BP.
XX
AC AAF45927;
XX
DT 30-MAR-2001 (first entry)
DE IGFBP2 oligonucleotide #766.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytoskeletal; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN MO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000MO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX
DR WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
PS Example 6; Page 39; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 5 A; 4 C; 5 G; 1 T; 0 U; 0 Other;

```

Query Match 57.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 15;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 1023 GCCCAAGAGCTG 1035
DB 3 GCCCAAGAGCTG 15

```

RESULT 5
AAF45928
ID AAF45928 standard; DNA; 15 BP.
XX
XX AAF45928;

```

XX
DT 30-MAR-2001 (first entry)
DE IGFBP2 oligonucleotide #767.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytoskeletal; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN MO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000MO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX
DR WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
PS Example 6; Page 39; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 5 A; 5 C; 4 G; 1 T; 0 U; 0 Other;

```

Query Match 57.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 15;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 1023 GCCCAAGAGCTG 1035
DB 2 GCCCAAGAGCTG 14

```

RESULT 6
ABC34320
ID ABC34320 standard; DNA; 13 BP.
XX
XX ABC34320;
AC
XX
XX 20-FEB-2002 (first entry)
DT
XX Oligonucleotide SEQ ID NO 34337 for detecting SNP TSC0010965.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIDENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 34337; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
SQ
XX Query Match 55.0%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 16;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1027 AAGAGGTGGG 1037
Db 3 AAGAGGTGGG 13
XX
XX RESULT 7
XX ABC4321/c
XX ID ABC34321 standard; DNA; 13 BP.
XX ABC34321;
XX 20-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 34338 for detecting SNP TSC0010965.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX

PR 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIDENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 34338; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 U; 0 Other;
SQ
XX Query Match 55.0%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 16;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1027 AAGAGGTGGG 1037
Db 11 AAGAGGTGGG 1
XX
XX RESULT 8
XX ABC45614
XX ID ABC45614 standard; DNA; 13 BP.
XX ABC45614;
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 45631 for detecting SNP TSC0013272.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIDENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 45631; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1027 AAGAAGTGGG 1037
|||
2 AAGAAGTGGG 12

Db

RESULT 9
ABC45615/c
ID ABC45615 standard; DNA; 13 BP.
AC ABC45615;
XX
XX 21-FEB-2002 (first entry)
DT
XX
DE Oligonucleotide SEQ ID NO 45632 for detecting SNP TSC0013272.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 45632; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1027 AAGAAGTGGG 1037
|||
12 AAGAAGTGGG 2

Db

RESULT 10
AAZ81481
ID AAZ81481 standard; DNA; 10 BP.
XX
AC AAZ81481;
XX
XX 07-APR-2000 (first entry)
DT
XX
DE Metastatic breast tumour cell upregulated transcript tag #715.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9965928-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
XX
XX 19-JUN-1998; 98US-0089979P.
XX
XX 19-JUN-1998; 98US-0090039P.
XX
XX 19-JUN-1998; 98US-0090040P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 77; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector

CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy

XX Sequence 10 BP; 4 A; 2 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 21;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAAAGT 1034

DB 1 CCAAGAAAGT 10

RESULT 11

ABV70040/C

ID ABV70040 standard; cDNA; 11 BP.

AC ABV70040;

DT 21-OCT-2002 (first entry)

DE Human skin EST 7826.

XX Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrheic;

KM immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;

KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

OS WO200253774-A2.

PN 11-JUL-2002.

PD 20-DEC-2001; 2001WO-EP015179.

PR 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

DR In vitro identification of skin-expressed genes, useful for determining

PT homeostasis and identifying cosmetic or pharmaceutical agents against

XX e.g. skin cancer.

PS Claim 24; Page 249; 1345pp; German.

XX The invention relates to in vitro identification (MI) of genes expressed

CC in the skin of humans or animals by subjecting a mixture of genetically

CC encoded factors from skin, to serial analysis of gene expression (SAGE)

CC so as to identify skin-expressed genes and quantify their expression.

CC (MI) is useful for identifying genes involved in skin homeostasis; to

CC determine skin homeostasis and to test agent (A) that maintains or

CC promotes skin homeostasis or that can be used for treating skin

CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;

CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the

CC skin. The present sequence is that of a human expressed sequence tag

CC (EST) of the invention

XX Sequence 11 BP; 0 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

QY 1024 CCAAGAAAGG 1033

DB 10 CCAAGAAAGG 1

RESULT 12

ABV62619/C

ID ABV62619 standard; cDNA; 11 BP.

AC ABV62619;

DT 21-OCT-2002 (first entry)

DE Human skin EST 405.

XX Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrheic;

KM immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;

KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

OS WO200253774-A2.

PN 11-JUL-2002.

PD 20-DEC-2001; 2001WO-EP015179.

PR 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

DR In vitro identification of skin-expressed genes, useful for determining

PT homeostasis and identifying cosmetic or pharmaceutical agents against

XX e.g. skin cancer.

PS Disclosure; Page 37; 1345pp; German.

XX The invention relates to in vitro identification (MI) of genes expressed

CC in the skin of humans or animals by subjecting a mixture of genetically

CC encoded factors from skin, to serial analysis of gene expression (SAGE)

CC so as to identify skin-expressed genes and quantify their expression.

CC (MI) is useful for identifying genes involved in skin homeostasis; to

CC determine skin homeostasis and to test agent (A) that maintains or

CC promotes skin homeostasis or that can be used for treating skin

CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;

CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the

CC skin. The present sequence is that of a human expressed sequence tag

CC (EST) of the invention

XX Sequence 11 BP; 0 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

QY 1024 CCAAGAAAGG 1033

DB 10 CCAAGAAAGG 1

Query Match 50.0%; Score 10; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 24;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1024 CCAAGAAAGG 1033

DB 10 CCAAGAAAGG 1

Query Match 50.0%; Score 10; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 24;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1024 CCAAGAAAGG 1033

DB 10 CCAAGAAAGG 1

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 276163; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
SQ
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1027 AGAAGGTGG 1036
Db 10 AAGAAGGTGG 1
|||||
RESULT 14
ABI71877/C
ID ABI71877 standard; DNA; 12 BP.
XX
XX ABI71877;
AC
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide primer SEQ ID NO 371850 for detecting SNP TSC0059032.
DE
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
PA

XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 371850; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989, and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
SQ
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTGG 1037
Db 11 AAGAAGGTGG 2
|||||
RESULT 15
AAA54180
ID AAA54180 standard; cDNA; 13 BP.
XX
XX AAA54180;
AC
XX 08-FEB-2001 (first entry)
DT
XX
XX 5' exon-intron junction of exon 3 of BSMAP.
DE
XX
XX Brain specific membrane anchored protein; BSMAP; dopamine; GABA;
KW receptor; agonist; antagonist; central nervous system; CNS;
KW brain disease; chromosome 19; CYP-1; depression; dyslexia; dystonia;
KW eating disorder; epilepsy; migraine; headache; panic disorder;
KW schizophrenia; obsessive disorder; compulsive disorder;
KW amyotrophic lateral sclerosis; multiple sclerosis; Alzheimer's disease;
KW brain tumour; Huntington's disease; Parkinson's disease; stroke; human;
KW exon; intron; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200055317-A1.
XX
XX 21-SEP-2000.
PD
XX
XX 16-MAR-2000; 2000MO-IB000360.
PF
XX
XX 16-MAR-1999; 99EP-00400636.
PR
XX
XX (FABR) FABRE MEDICAMENT SA PIERRE.
PA
XX
XX Elson G, Bonnefoy J, Gauchat J;
PI
XX
XX WPI; 2000-638200/61.
DR
XX
XX Novel nucleic acid encoding Brain-Specific Membrane Anchored Protein
PT useful for treating central nervous system associated disorders and
PT diseases.
PT

XX
PS Disclosure; Page 13; 45pp; English.
XX
CC Several receptors (dopamine receptors, the 5-HT family of receptors and
CC GABA receptors) have been shown to be useful targets by agonist and
CC antagonist compounds to treat and/or prevent CNS disorders. Brain
CC receptors in general are attractive candidates for finding new therapies
CC for brain diseases. Human chromosome 19 is a short chromosome with a
CC relatively high GC content which has been found to be involved in CNS
CC functions. The gene for type I cytokine receptor homologue CLF-1 was
CC recently localised to chromosome 19. Unexpectedly seven other exons
CC coding in the reverse orientation located adjacent to the CLF-1 exons
CC have also been found. This new gene was designated brain-specific
CC membrane anchored protein (BSMAP). Antagonistic compounds directed
CC against BSMAP are useful for preparing medicaments for treating and/or
CC preventing central nervous system disorders such as depression, dyslexia,
CC dystonia, eating disorders, epilepsy, migraine, headache, panic disorder,
CC schizophrenia, obsessive and compulsive disorders, amyotrophic lateral
CC sclerosis, multiple sclerosis, Alzheimer's disease, brain tumors,
CC Huntington's disease, Parkinson's disease and stroke
XX
SQ Sequence 13 BP; 3 A; 2 C; 6 G; 2 T; 0 U; 0 Other;
XX
Query Match 50.0%; Score 10; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTGGG 1037
Db 1 AGAAGGTGGG 10
|||||
|
RESULT 16
ABC48640/c
ID ABC48640 standard; DNA; 13 BP.
XX
AC ABC48640;
XX
XX 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 48657 for detecting SNP TSC0013839.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 48657; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 3 A; 2 C; 6 G; 2 T; 0 U; 0 Other;

CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 3 A; 0 C; 5 G; 5 T; 0 U; 0 Other;
XX
Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 32;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1018 CTTCTGCCCAAG 1030
Db 13 CTTCTGCCCAAA 1
|||||
|
RESULT 17
ABC48641
ID ABC48641 standard; DNA; 13 BP.
XX
AC ABC48641;
XX
XX 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 48658 for detecting SNP TSC0013839.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 48658; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 5 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
XX
Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 32;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY	1018	CTTCGCCAGAGA	1030
DB	1	CTTCACCCAAAA	13
RESULT 18			
ID	ABF26997	standard; DNA; 13 BP.	
XX	ABF26997;		
XX	21-FEB-2002	(first entry)	
DE	OLIGONUCLEOTIDE SEQ ID NO 126994	for detecting SNP TSC0031788.	
XX	SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;		
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss/		
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.		
OS	Homo sapiens.		
XX	WO200177384-A2.		
XX	18-OCT-2001.		
XX	06-APR-2001; 2001WO-1B000713.		
XX	07-APR-2000; 2000DE-01019173.		
XX	(EPIG-) EPIGENOMICS AG.		
XX	Olek A. Piepenbrock C, Berlin K;		
XX	WPI; 2001-657177/75.		
XX	Set of oligonucleotides, useful for diagnosis and cell typing, is		
PT	designed to detect single-nucleotide polymorphisms and cytosine		
PT	methylation status.		
PS	Claim 1: SEQ ID NO 126994; 29pp + Sequence Listing; German.		
CC	This invention describes novel oligonucleotide primers or peptide nucleic		
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)		
CC	and cytosine methylation status in chemically pretreated genomic DNA. The		
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a		
CC	range of diseases including immune system, gastrointestinal, respiratory,		
CC	central nervous system, cardiovascular and metabolic disorders. The		
CC	oligonucleotides are also used for detecting cell type differentiation. ABC00010		
CC	-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073		
CC	represent the oligomers described in the invention. NOTE: The sequence		
CC	data for this patent did not form part of the printed specification, but		
CC	was obtained in electronic format from WIPO at		
CC	ftp.wipo.int/pub/published_pct_sequences		
SQ	Sequence 13 BP; 4 A; 6 C; 0 G; 3 T; 0 U; 0 Other;		
QY	Query Match	49.0%; Score 9.8; DB 1; Length 13;	
	Best Local Similarity	84.6%; Pred. No. 32;	
	Matches 11; Conservative	0; Mismatches 2; Indels 0; Gaps 0	
QY	1019	TTCTGCCCAAGAA	1031
DB	1	TTCTCCCAACAA	13
RESULT 19			
ID	ABF26996/C	standard; DNA; 13 BP.	
XX	ABF26996;		
XX	21-FEB-2002	(first entry)	

XX	Oligonucleotide SEQ ID NO 126993 for detecting SNP TSC0031788.
DE	
XX	SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX	
XX	Homo sapiens.
OS	
XX	WO200177384-A2.
PN	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K,
XX	WPI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
PS	Claim 1; SEQ ID NO 126993; 29pp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC00010
CC	-ABC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
XX	Sequence 13 BP; 3 A; 0 C; 6 G; 4 T; 0 U; 0 Other;
Query Match	49.0%; Score 9.8; DB 1; Length 13;
Best local Similarity	84.6%; Pred. No. 32;
Matches 11; Conservative	0; Mismatches 2; Indels 0; Gaps 0;
QY	1019 TTCTGCCCAAGAA 1031 13 TTCTCCCCACAA 1
Db	
RESULT 20	
ID	ABK99486 standard; DNA; 11 BP.
AC	ABK99486;
XX	
DT	21-OCT-2002 (first entry)
XX	
DE	Human CYP3A5 gene polymorphic reference DNA sequence #56.
XX	
KM	Human; CYP3A5; polymorphism; cancer; cardiovascular disease; diabetes;
KW	AIDS; African American; forensic marker; pharmacological; cytostatic;
KM	antidiabetic; anti-HIV; gene therapy; ds.
XX	
OS	Homo sapiens.
XX	
PN	WO200253775-A2.
XX	
PD	11-JUL-2002.
XX	

PF 21-DEC-2001; 2001WO-EP015290.
XX
PR 28-DEC-2000; 2000EP-00128637.
PR 28-DEC-2000; 2000US-0258684P.
PR 29-DEC-2000; 2000US-0258952P.
PR 16-JAN-2001; 2001EP-00100172.
PR 18-JAN-2001; 2001US-0262859P.
PR 16-AUG-2001; 2001EP-00118884.
PR 16-AUG-2001; 2001US-0312825P.
XX
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Wojnowski L, Haberl M, Huestert E;
XX
DR WPI; 2002-583628/62.
XX
XX Novel CYP3A5 polynucleotide useful for diagnosis and treatment of cancer,
PT cardiovascular diseases, diabetes and AIDS, and for identifying
PT polymorphisms.
XX
PS Example 2; Page 53; 138pp; English.
XX
CC The present invention relates to a new CYP3A5 polynucleotide encoding a
CC polypeptide, where the polynucleotide is capable of hybridizing to a
CC CYP3A5 gene. The invention is useful in an in vitro method for
CC identifying a polymorphism. The invention is also useful for useful for a
CC diagnosing a disorder related to the presence of a molecular variant of a
CC CYP3A5 or susceptibility to such a disorder, where the disorder is
CC cancer, or diseases including cardiovascular diseases, diabetes and AIDS.
CC The invention can further be used for the preparation of a diagnostic
CC composition for diagnosing a disease in a subject having a genome
CC comprising a variant allele of the CYP3A5 gene, where the subject is an
CC African American. The molecules of the invention are as forensic markers
CC and in pharmacological studies. The present nucleic acid sequence
CC represents a human CYP3A5 gene polymorphism reference DNA sequence, as
CC described in the invention
XX
SQ Sequence 11 BP; 4 A; 3 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1020 TCTGCCCAAGA 1030
DB 1 TCTGCCCAAGA 11

RESULT 21
ADQ32668
ID ADQ32668 standard; DNA; 11 BP.
XX
AC ADQ32668;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human facial skin-associated DNA fragment SEQ ID NO 758.
XX
XX facial skin; human; serial analysis of gene expression; SAGE;
KM homeostasis; biochip; cosmetic; pharmaceutical; de.
XX
OS Homo sapiens.
XX
PN DE10260928-A1.
XX
PD 08-JUL-2004.
XX
PE 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENKEL) HENKEL KGAA.
XX

PI Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
PI Conradt M, Hofmann K;
XX
DR WPI; 2004-518855/50.
XX
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 5; SEQ ID NO 758; 577pp; German.
XX
XX This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ3111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 3 A; 4 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCCTAGAA 1031
DB 1 CTGCCCTAGAA 11

RESULT 22
AB113302/C
ID AB113302 standard; DNA; 12 BP.
XX
AC AB113302;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 313275 for detecting SNP TSC0025624.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIC-) EPICENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 313275; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
XX
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
Oy 1027 AAGAGGTGG 1037
Db 11 ATGAGGTGG 1
XX
RESULT 23
AB147015
ID AB147015 standard; DNA; 12 BP.
AC AB147015;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 346988 for detecting SNP TSC0044863.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 346988; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 0 G; 3 T; 0 U; 0 Other;

CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 4 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
XX
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
Oy 1027 AAGAGGTGG 1037
Db 2 AGGAGGTGG 12
XX
RESULT 24
AB145565
ID AB145565 standard; DNA; 12 BP.
AC AB145565;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 345538 for detecting SNP TSC0044079.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 345538; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 8 G; 1 T; 0 U; 0 Other;
XX
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAGGTGGG 1037
XX |||||
Db 2 AAGGAGGTGGG 12

RESULT 25
ABI69022
ID ABI69022 standard; DNA; 12 BP.
XX
AC ABI69022;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 368995 for detecting SNP TSC0057391.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 368995; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 7 G; 2 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAGGTGGG 1037
XX |||||
Db 2 AAGTAgGTGGG 12

RESULT 26
ABH91427/c
ID ABH91427 standard; DNA; 12 BP.
XX
AC ABH91427;
XX
DT 22-FEB-2002 (first entry)
XX

DE Oligonucleotide primer SEQ ID NO 291420 for detecting SNP TSC0014786.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PD Set of oligonucleotides, useful for diagnosis and cell typing, is
PD designed to detect single-nucleotide polymorphisms and cytosine
PD methylation status.
XX
PS Claim 1; SEQ ID NO 291420; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 1 A; 5 C; 0 G; 6 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAGGTGGG 1037
XX |||||
Db 11 AAGAGGTAGG 1

RESULT 27
ABI61189
ID ABI61189 standard; DNA; 12 BP.
XX
AC ABI61189;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 361162 for detecting SNP TSC0052480.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX

XX 07-APR-2000; 2000DE-01019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 361162; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1018 CTTCTGCCCA 1028
Db 2 CTTCTACCCA 12
RESULT 28
ABH98731/C
ID ABH98731 standard; DNA; 12 BP.
XX
AC ABH98731;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 298724 for detecting SNP TSC0018250.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX

PS Claim 1; SEQ ID NO 298724; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 2 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1027 AAGAGGTGGG 1037
Db 11 AAGAGGTGGG 1
RESULT 29
ABH85586
ID ABH85586 standard; DNA; 12 BP.
XX
AC ABH85586;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 285579 for detecting SNP TSC0012359.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 285579; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 5 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGTGGG 1037
DB 2 AAGAGGAGGG 12
RESULT 30
ADP78633
ID ADP78633 standard; DNA; 12 BP.
XX
AC ADP78633;
XX
DT 26-FEB-2004 (first entry)
XX
DE Chromosomal abnormality detection-related PCR primer 214.
XX
KM chromosomal abnormality; maternal locus; genetic disorder; foetus;
KM mutation; translocation; transversion; monosomy; trisomy; trisomy 21;
KM chromosome 21; Down's Syndrome; aneuploidies; chromosome deletion;
KM chromosome addition; chromosome amplification; chromosome translocation;
KM chromosome rearrangement; single nucleotide polymorphism detection;
KM SNP detection; pregnant female; PCR; primer; ss.
XX
OS Homo sapiens.
XX
PN WO2003074723-A2.
XX
PD 12-SEP-2003.
XX
PF 28-FEB-2003; 2003WO-US06198.
XX
PR 01-MAR-2002; 2002US-0360232P.
PR 11-MAR-2002; 2002US-00093618.
PR 08-MAY-2002; 2002US-0378354P.
XX
PA (DHALLAN/) DHALLAN R.
XX
PI Dhallan R;
XX
DR WPI; 2003-845073/78.
XX
PT Detection of chromosomal abnormalities e.g. Down's Syndrome, non-invasively in a fetus, comprises forming a ratio of amounts of alleles at a locus of interest and a different heterozygous locus.
XX
PS Example 11; Page 234; 164pp; English.
XX
CC This invention relates to a novel method of detecting chromosomal abnormalities by determining the sequence of alleles of a locus of interest from template DNA, determining which alleles are present and comparing to amounts of alleles at a different, selected heterozygous locus (for example on another chromosome or a maternal locus); relative amounts are expressed as a ratio indicating presence or absence of the abnormality. The method is useful for the detection of genetic disorders, especially in a foetus, including chromosomal abnormalities and mutations, for example translocations, transversions, monosomies, trisomies (for example trisomy 21 in which an additional copy of chromosome 21 results in Down's Syndrome) and other aneuploidies, deletions, additions, amplifications, translocations and rearrangements. It can be used to detect any alterations in a gene sequence, especially single nucleotide polymorphisms (SNPs), and may be used to detect numerous abnormalities simultaneously, for example if several SNPs are associated with a particular disease. The method provides a rapid, non-invasive method for determining the sequence of DNA from a foetus using a sample from a pregnant female, for example to detect genetic disorders as above or to determine if a foetus is a carrier of a disease or

CC predisposed to a disease.
XX
SQ Sequence 12 BP; 3 A; 5 C; 2 G; 2 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1018 CTTGTGCCCA 1028
DB 2 CTTGTGCCCA 12
RESULT 31
AAZ77982
ID AAZ77982 standard; DNA; 10 BP.
XX
AC AAZ77982;
XX
DT 10-APR-2000 (first entry)
XX
DE Human dendritic cell SAGE tag, SEQ ID NO:410.
XX
KM SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KM APC; monocyte-derived dendritic cell; differential gene expression;
KM immunostimulatory cofactor; costimulatory factor; CTL;
KM cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS Homo sapiens.
XX
PN WO965924-A2.
XX
PD 23-DEC-1999.
XX
PE 18-JUN-1999; 99WO-US013800.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089979P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE) ROBERTS B L.
PA (SHAN) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106077/09.

XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.
XX
XX Claim 1, Page 76; 130pp; English.
XX
XX Sequences AA27573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
CC
XX Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
SQ

Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 GAAGTGGG 1037
Db 1 GAAGTGGG 9

RESULT 32
AA278502
ID AA278502 standard; DNA; 10 BP.
XX
XX AA278502;
XX
XX 10-APR-2000 (first entry)
XX
XX Human dendritic cell SAGE tag. SEQ ID NO:930.
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
XX APC; monocyte-derived dendritic cell; differential gene expression;
XX immunostimulatory cofactor; costimulatory factor; CTL;
XX cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
XX
XX MO9965924-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013800.
XX

PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089921P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
DR
XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.
PT
XX Claim 1, Page 92; 130pp; English.
XX
XX Sequences AA27573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,

CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells
 XX
 SQ Sequence 10 BP, 2 A, 4 C, 1 G, 3 T, 0 U, 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1019 TTCTGCCCA 1027
 |||||
 Db 2 TTCTGCCCA 10

RESULT 33

AAZ78803
 ID AAZ78803 standard; DNA, 10 BP.

AC AAZ78803;

XX 10-APR-2000 (first entry)

DE Human dendritic cell SAGE tag; SEQ ID NO:1231.

XX SAGE tag: serial analysis of gene expression; antigen-presenting cell,
 KM APC; monocyte-derived dendritic cell; differential gene expression;

KW immunostimulatory cofactor; costimulatory factor; CTX;
 KM cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

XX Homo sapiens.

PN MO9965924-A2.

XX 23-DEC-1999.

PF 18-JUN-1999; 99WO-US013800.

XX 19-JUN-1998; 98US-0089843P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-0089911P.

PR 19-JUN-1998; 98US-0089922P.

PR 19-JUN-1998; 98US-0089933P.

PR 19-JUN-1998; 98US-0089944P.

PR 19-JUN-1998; 98US-0089977P.

PR 19-JUN-1998; 98US-0089999P.

PR 19-JUN-1998; 98US-0090000P.

PR 19-JUN-1998; 98US-0090036P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090041P.

PR 19-JUN-1998; 98US-0090042P.

PR 19-JUN-1998; 98US-0090043P.

PR 19-JUN-1998; 98US-0090044P.

PR 19-JUN-1998; 98US-0090045P.

PR 19-JUN-1998; 98US-0090047P.

PR 19-JUN-1998; 98US-0090048P.

PR 19-JUN-1998; 98US-0090077P.

PR 19-JUN-1998; 98US-0090078P.

PR 19-JUN-1998; 98US-0090079P.

PR 06-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

DR WPI; 2000-106077/09.

XX Isolated polynucleotides differentially expressed in antigen-presenting
 PT cells; useful in gene vaccines against cancer.

XX Claim 1; Page 100; 130pp; English.

XX Sequences AAZ77573-279709 represent SAGE (serial analysis of gene
 CC expression) tags used to identify mRNA transcripts encoding

CC immunostimulatory cofactor proteins which are preferentially or
 CC differentially expressed in monocyte-derived dendritic cells compared

CC with monocytes. Some of the transcripts correspond to known genes or ESTs
 CC (expressed sequence tags) which were previously unknown to be

CC preferentially or differentially expressed in dendritic cells, while
 CC other transcripts correspond to novel genes. Antigen-presenting cell

CC (APC)-associated costimulatory factors play an important role in the
 CC activation of the cytotoxic immune response, particularly against tumour

CC cells. Tumour antigen presentation via the MHC (major histocompatibility
 CC complex) and subsequent recognition by T-cell receptors is alone

CC insufficient to activate a robust cytotoxic immune response that can lyse
 CC the tumour cells, immunostimulatory cofactors also being required for

CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
 CC sequences identified using the SAGE tags have several potential uses.

CC They may be used in vaccines to induce an immune response, particularly
 CC against a tumour antigen; to modulate the genotype of an APC; to screen

CC for agents that modulate expression of differentially expressed genes in
 CC an APC; and as hybridisation probes/amplification primers for the

CC diagnosis, prognosis and monitoring of diseases related to abnormal
 CC expression of these genes. Detection of the dendritic cell differentially

CC expressed genes, or of their encoded proteins, can be used to identify
 CC cells as belonging to the monocyte lineage. Cells containing these genes

CC can be used in active immunotherapy (or to stimulate production of a
 CC population of antigen-specific effector cells) and vectors containing

CC them are used in gene therapy. Co-administration of tumour antigens and
 CC APC-associated costimulatory factors ensures adequate antigen

CC presentation to endogenous APCs and upregulates the APCs for the
 CC presentation of co-stimulatory signals, migration to T cell-rich sites,

CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells

XX Sequence 10 BP, 3 A, 0 C, 5 G, 2 T, 0 U, 0 Other;

SQ

Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGCTGC 1036
 |||||

Db 2 AGAAGCTGC 10

RESULT 34
 AAZ82426
 ID AAZ82426 standard; DNA, 10 BP.

AC AAZ82426;

XX 07-APR-2000 (first entry)

DE Metastatic breast tumour cell upregulated transcript tag #1660.

XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;

KW non-metastatic breast tumour tissue; gene therapy; anticancer;

KM anti-metastatic; vaccine; diagnosis; ss.

XX Homo sapiens.

PN MO9965928-A2.

XX 23-DEC-1999.

PF 18-JUN-1999; 99WO-US013647.

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PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polymucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 103; 219pp; English.
XX
CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
XX Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1018 CTTCTGCCC 1026
Db 2 CTTCTGCCC 10
XX
XX RESULT 35
XX AAF42275
XX ID AAF42275 standard; DNA; 10 BP.
XX
XX AAF42275;
XX
XX 23-MAR-2001 (first entry)
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:9014.
XX
XX Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
XX not previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.

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XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX
XX WPI; 2001-061874/07.
XX
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX
XX Example; Page 321; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10x between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression of
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe whose expression varies at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1026 CAAGAAGGT 1034
Db 2 CAAGAAGGT 10
XX
XX RESULT 36
XX ABT14287/c
XX ID ABT14287 standard; DNA; 10 BP.
XX
XX ABT14287;
XX
XX 20-FEB-2003 (first entry)
XX
XX Nucleic acid PCR amplification method-related RAPD PCR primer #57.
XX
XX Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
XX RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
XX Unidentified.
XX
XX WO200281743-A2.
XX
XX

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PD 17-OCT-2002.
 XX 28-MAR-2002; 2002WO-GB001489.
 XX 02-APR-2001; 2001GB-00008182.
 XX (HAMI/) HAMILL B.
 XX Hamill B;
 XX WPI; 2003-075484/07.
 XX
 XX Amplification of nucleotide sequences from polynucleotides by chain
 PT extension of oligonucleotide primers, comprises 2 oligonucleotides in
 PT solution, 2 attached to supports and both share complementary sequences.
 XX
 XX Disclosure; Fig 17, 60pp; English.
 XX
 XX The invention comprises a method for the PCR amplification of nucleic
 CC acids. The method involves a set of primers, where two of the primers are
 CC in solution and at least two other primers are attached to a solid
 CC support. The method of the invention can be used for the analysis of a
 CC nucleic acid or a mixture of nucleic acids, including: single-stranded
 CC DNA molecules, double-stranded DNA molecules and mRNA molecules. The
 CC present DNA sequence represents a random amplified polymorphic DNA (RAPD)
 CC PCR primer of the invention
 CC
 XX Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1022 TGCCCAAGA 1030
 DB 10 TGCCCAAGA 2
 RESULT 37
 ADG98610/c
 ID ADG98610 standard; DNA; 10 BP.
 XX
 XX ADG98610;
 AC
 XX 11-MAR-2004 (first entry)
 DT
 XX Human CERP gene allele specific extension PCR primer #71.
 DE
 XX human: cholesterol ester transfer protein; CERP;
 XX single nucleotide polymorphism; SNP; drug screening; atherosclerosis;
 KW cardiovascular disease; hypercholesterolaemia;
 KW allele specific oligonucleotide; ss; extension PCR; primer.
 XX
 XX Homo sapiens.
 OS
 XX MO2003091277-A2.
 PN
 XX 06-NOV-2003.
 PD
 XX 28-APR-2003; 2003WO-US013288.
 PF
 XX 26-APR-2002; 2002US-0375791P.
 PR
 XX (GENA-) GENAISSANCE PHARM INC.
 PA
 XX Anastasio AE, Chew A, Kazemi A, Iachowicz M, Lee HH, Parks KE;
 PI Petersen N, Rounds E, Sausker EA, Tirrell C;
 XX WPI; 2003-865576/80.
 DR
 XX New isolated polynucleotide useful for haplotyping and/or genotyping
 PT cholesterol ester transfer protein (CERP) gene in an individual or in
 PT screening for drugs useful in treating diseases associated with CERP

PT activity.
 XX Claim 45; SEQ ID NO 242; 250pp; English.
 XX
 XX The invention comprises the amino acid and coding sequences of the human
 CC cholesterol ester transfer protein (CERP), the invention also comprises
 CC polymorphisms identified within the CERP gene. The DNA and protein
 CC sequences of the invention are useful in haplotyping and/or genotyping
 CC the CERP gene in an individual. The DNA and protein sequences may also be
 CC used to screen drugs or compounds targeting the CERP or its variant to
 CC treat a condition or disease associated with CERP (e.g. atherosclerosis,
 CC cardiovascular disease or hypercholesterolaemia). The present DNA
 CC sequence represents an allele specific extension PCR primer for the human
 CC CERP gene.
 CC
 XX Sequence 10 BP; 1 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1028 AGAAGTGG 1036
 DB 9 AGAAGTGG 1
 RESULT 38
 AAA87795/c
 ID AAA87795 standard; DNA; 11 BP.
 XX
 XX AAA87795;
 AC
 XX 28-NOV-2000 (first entry)
 DT
 XX Promoter P15B3 transcription factor binding site SEQ ID #159.
 DE
 XX
 XX Human; secreted protein; forensic procedure; gene therapy;
 KW chromosome mapping; cancer; autoimmune disease; cardiovascular disorder;
 KW cystic fibrosis; hypochromidism; immunological disorder; amyloidosis;
 KW brain disorder; skeletal muscle disorder; eye disorder; obesity;
 KW mitochondrialcytopathy; diabetes; atherosclerosis; Alzheimer's disease;
 KW neurodegenerative disorder; graft rejection; dementia; hyperlipidaemia;
 KW septic shock; impotence; promoter; P15B3; ds.
 XX
 XX Homo sapiens.
 OS
 XX MO200037491-A2.
 PN
 XX 29-JUN-2000.
 PD
 XX 20-DEC-1999; 99WO-IB002058.
 PF
 XX 22-DEC-1998; 98US-0113686P.
 PR
 XX 25-JUN-1999; 99US-0141032P.
 PR
 XX (GEST) GENSET.
 PA
 XX Bougueleret L, Dumas J, Duclert A;
 PI WPI; 2000-442637/38.
 DR
 XX Polynucleotides and polypeptides encoding proteins with signal peptides,
 PT useful in diagnostic, forensic, gene therapy and chromosome mapping
 PT procedures.
 XX
 XX Example 48; Fig 5; 306pp; English.
 PS
 XX This sequence represents a transcription factor binding site identified
 CC in the human P15B3 promoter. The invention relates to sequences AAA87725-
 CC AAA87774 which encode human secreted proteins AAB25763-B25812. The proteins
 CC include signal peptides. The P15B3 promoter is used in the isolation of
 CC the cDNAs of the invention. Included in the invention are a host cell
 CC containing one of the cDNA sequences, and a purified antibody capable of

CC binding to one of the secreted proteins. Also contained in the invention
CC are methods for storing the sequence data on a computer system, and a
CC method for identifying features of the cDNA sequences using a computer
CC programme. The cDNAs are useful for expressing secreted proteins or
CC fragments to obtain antibodies capable of specifically binding to the
CC secreted proteins. The cDNAs may also be useful in diagnostic, forensic,
CC gene therapy and chromosome mapping procedures and may be used to design
CC expression vectors and secretion vectors. The proteins of the invention
CC may be used to treat diseases including cancer, autoimmune diseases,
CC cardiovascular disorders, cystic fibrosis, hypothyroidism, immunological
CC disorders, amyloidosis, brain disorders, skeletal muscle disorders, eye
CC disorders, obesity, mitochondrial cytopathies, diabetes, atherosclerosis,
CC neurodegenerative disorders, graft rejection, Alzheimer's disease,
CC dementia, hyperlipidaemia, septic shock and impotence

SQ Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1029 GAAGGTGGG 1037
Db 10 GAAGGTGGG 2

RESULT 39
AAS07926/c
ID AAS07926 standard; DNA; 11 BP.
AC AAS07926;
XX
XX AAS07926;
XX
XX 23-OCT-2001 (first entry)
XX
DE Human transcription factor binding site from promoter P15B4 #5.
XX
XX Human; expressed sequence tag; EST; ds; promoter P15B4;
XX acute myocardial infarction; acute ischaemic stroke; diabetes; anaemia;
XX growth hormone deficiency; hepatitis; kidney carcinoma;
XX multiple sclerosis; chemotherapy-induced neutropenia;
XX transcription factor binding site.
XX
XX Homo sapiens.
XX OS
XX EP1104808-A1.
XX
XX 06-JUN-2001.
XX
XX 27-JUL-2000; 2000EP-00202699.
XX
XX 05-AUG-1999; 99US-0147499P.
XX
XX (GEST) GENSET.
XX
XX Dumas Milne Edwards J, Jobert S, Giordano J;
XX WPI; 2001-357986/38.
XX
XX
XX New purified 5' expressed sequence tags useful in diagnostic, forensic,
XX gene therapy or chromosome mapping procedures, or for distinguishing
XX human tissues or cells from non-human tissues or cells.

PS Example 53; Fig 5; 90pp; English.

CC The sequence represents a transcription factor binding site from human
CC promoter P15B4, the promoter and binding site being isolated using
CC invention from one of the 5' expressed sequence tags (EST) of the
CC invention, one of 15442 nucleotide sequences not given in the
CC specification. The 5' EST may be used to efficiently identify and isolate
CC 5'untranslated regions (UTRs) and upstream regulatory regions which
CC control the location, developmental stage, rate and quantity of protein
CC synthesis, as well as the stability of the mRNA. ESTs containing the 5'
CC ends of protein genes may include sequences for chromosome mapping and

CC identification individuals. The EST may further be used to distinguish
CC human tissues or cells from non-human tissues or cells, to distinguish
CC between human tissues or cells that do not and do not express
CC polynucleotides comprising the 5' EST sequences, to obtain and express
CC cDNA clones which include full protein coding sequences of the
CC corresponding gene products, to map and clone promoter regions, and open
CC reading frames from a genomic sequence, and to obtain and express
CC extended cDNAs encoding portions of the protein. EST-related nucleic
CC acids are useful in forensic procedures or in diagnosis of genetic
CC diseases resulting from abnormal gene expression, for constructing a high
CC resolution map of human chromosomes, and in gene therapy to control or
CC treat genetic diseases. Proteins expressed from the cDNAs may be used in
CC treating or controlling a variety of human conditions e.g acute
CC myocardial infarction, acute ischaemic stroke, diabetes, anaemia, growth
CC hormone deficiency, hepatitis, kidney carcinoma, multiple sclerosis,
CC chemotherapy-induced neutropenia

SQ Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1029 GAAGGTGGG 1037
Db 10 GAAGGTGGG 2

RESULT 40
ABV64418/c
ID ABV64418 standard; cDNA; 11 BP.
XX
XX ABV64418;
XX
XX 21-OCT-2002 (first entry)
XX
XX Human skin EST 2204.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; antisporhaeic;
XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX OS
XX WO200253774-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015179.
XX
XX 03-JAN-2001; 2001DE-01000127.
XX
XX (HENK) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-590638/63.
XX
XX
XX In vitro identification of skin-expressed genes, useful for determining
XX homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.

PS Disclosure; Page 86; 1345pp; German.

CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 3 A; 2 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 42;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1018 CTTCTGCC 1026
 DB 9 CTTCTGCC 1

RESULT 41
 ABV71839/c
 ID ABV71839 standard; cDNA; 11 BP.
 XX
 XX ABV71839;
 AC
 XX 21-OCT-2002 (first entry)
 DT
 XX Human skin EST 9625.
 DE
 XX Human; skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
 KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 XX 20-DEC-2001; 2001WO-EP015179.
 PF
 XX 03-JAN-2001; 2001DE-01000127.
 PR
 XX (HENKEL) HENKEL KGAA.
 PA
 XX Peterohn D, Conradt M, Hofmann K;
 PI
 XX WPI; 2002-590638/63.
 DR
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Claim 24; Page 311; 1345pp; German.
 SQ

CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 XX
 SQ Sequence 11 BP; 3 A; 2 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 42;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1018 CTTCTGCC 1026
 DB 9 CTTCTGCC 1

RESULT 42
 AAK9270/c
 ID AAK9270 standard; DNA; 11 BP.
 XX
 XX AAK9270;
 AC
 XX 31-MAY-2002 (first entry)
 DT
 XX P15B4 promoter transcription binding site DELTAEP1_01.
 DE
 XX Promoter DNA; diagnostic; forensic; gene therapy; chromosome mapping;
 KM expression vector; secretion vector; P15B4; transcription binding site;
 KM ss.
 XX
 OS Homo sapiens.
 XX
 PN CA2343602-A1.
 XX
 PD 18-OCT-2001.
 XX
 XX 17-APR-2001; 2001CA-02343602.
 PF
 XX 18-APR-2000; 2000US-0197873P.
 PR
 XX (GENSET) GENSET.
 PA
 XX Dumas Milne Edwards JB, Jobert S, Giordano J, Tanaka H, Benjamin S;
 PI
 XX WPI; 2002-227459/29.
 DR
 XX
 XX New nucleic acid sequences comprising human expressed sequence tags
 PT (ESTs), useful in diagnostic, forensic, gene therapy or chromosome
 PT mapping procedures, or for designing expression vectors and secretion
 PT vectors.
 XX
 PS Disclosure; Fig 5; 163pp; English.
 XX
 XX The invention relates to purified nucleic acids, which comprise sequences
 CC selected from any of more than 50000 sequences not defined in the
 CC specification. The polynucleotide sequences are useful in making cDNA,
 CC polypeptides and promoter DNA, and in diagnostic, forensic, gene therapy
 CC or chromosome mapping procedures. The nucleic acid sequences are also
 CC useful for designing expression vectors and secretion vectors. This
 CC polynucleotide sequence represents a P15B4 promoter transcription binding
 CC site of the invention
 CC
 XX
 SQ Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 42;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1029 GAAGTGGG 1037
 DB 10 GAAGTGGG 2

RESULT 43
 AAS21210/c
 ID AAS21210 standard; DNA; 11 BP.
 XX
 XX AAS21210;
 AC
 XX 09-APR-2002 (first entry)
 DT
 XX Transmissible gastroenteritis virus full length clone, C/DE-1 junction.
 DE
 XX Transmissible gastroenteritis virus; TGE; gene transfer;
 KM recombinant viral genome; gene therapy; artificial chromosome; vaccine;
 KM ds.
 XX

```
OS Transmissible gastroenteritis virus.
OS Synthetic.
XX
XX Key Location/Qualifiers
XX mutation replace(6,T)
XX misc_feature /*tag= a
XX /*tag= b
XX /*label= Cleavage site
XX /*note= "Restriction enzyme Bgl1 cleaves at this site
XX creating a sticky end"
XX replace(10,A)
XX /*tag= c
XX
XX WO200190340-A2.
XX
XX 29-NOV-2001.
XX
XX 21-MAY-2001; 2001WO-US016564.
XX
XX 21-MAY-2000; 2000US-0206537P.
XX 20-APR-2001; 2001US-0285320P.
XX
XX (UYNC-) UNIV NORTH CAROLINA.
XX
XX Baric RS, Yount B;
XX
XX WPI; 2002-114286/15.
XX
XX Directionally assembling a recombinant viral genome, useful for
XX manipulating the genomes of plants, animals, bacteria or viruses for gene
XX therapy, by ligating the subclones of the viral genome to assemble a
XX recombinant viral genome.
XX
XX Example 7; Page 22; 42pp; English.
XX
XX The invention describes a method of directionally assembling a
XX recombinant viral genome comprising ligating the subclones of the viral
XX genome to assemble a recombinant viral genome, particularly coronaviruses.
XX For directionally assembling a recombinant viral genome. In particular,
XX the method is useful for manipulating the genomes of higher plants and
XX animals, as well as bacteria and viruses. In particular, the method is
XX useful for the precise genetic manipulation of individual chromosomes in
XX whole plants and animals and the construction of artificial chromosomes
XX for gene therapy. The genomes produced are useful in preparing vaccines
XX and expression vectors (e.g., TGE vectors and vaccines), which are useful
XX in protocols involving vaccination, gene transfer and gene therapy. This
XX sequence represents the interconnecting junction site C/DE-1 used in the
XX assembly of the full length transmissible gastroenteritis virus (TGE)
XX genome described in the method of the invention
XX
XX Sequence 11 BP; 0 A; 4 C; 3 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 11;
XX Best Local Similarity 100.0%; Pred. No. 42;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1025 CCAAGAGG 1033
XX |||||
XX 10 CCAAGAGG 2
XX
XX RESULT 44
XX ADF30775
XX ID ADF30775 standard; DNA; 11 BP.
XX
XX AC ADF30775;
XX
XX DT 12-FEB-2004 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO:10.
XX
XX nucleic acid identification; wave pattern generation; dissociation curve;
```

```
KM dissociation curve wave pattern database; single nucleotide polymorphism;
KM SNP; primer; ss.
XX
XX OS Synthetic.
XX
XX WO2003097828-A1.
XX
XX 27-NOV-2003.
XX
XX 20-MAY-2003; 2003WO-JP006275.
XX
XX 21-MAY-2002; 2002JP-00182177.
XX
XX (ADGE-) ADGENE CO LTD.
XX
XX Oshima J, Nemoto K;
XX
XX WPI; 2004-012534/01.
XX
XX Method for identifying nucleic acids by constructing dissociation curves
XX with synthetic nucleic acids.
XX
XX Example 4; SEQ ID NO 10; 94pp; Japanese.
XX
XX The present invention describes a method for identifying nucleic acids
XX by: (1) synthesizing nucleic acids that are complementary to different
XX parts of the target nucleic acid; (2) constructing dissociation curves
XX for a mixture of the synthetic nucleic acids; and (3) by comparing the
XX wave patterns, identifying the nucleic acid with the same wave pattern to
XX have the same base sequence. Also described: (A) primers for wave pattern
XX generation; (B) producing the primers; (C) a nucleic acid identification
XX kit; (D) generating wave patterns for the dissociation curves; and (E)
XX dissociation curve wave pattern database. The method can be used for
XX nucleic acid identification which is useful in the analysis of single
XX nucleotide polymorphisms (SNPs). The present sequence represents an
XX oligonucleotide primer which is used in the exemplification of the
XX present invention.
XX
XX Sequence 11 BP; 2 A; 0 C; 8 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 11;
XX Best Local Similarity 100.0%; Pred. No. 42;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1029 GAAGTGGG 1037
XX |||||
XX 2 GAAGTGGG 10
XX
XX RESULT 45
XX ADQ33660
XX ID ADQ33660 standard; DNA; 11 BP.
XX
XX AC ADQ33660;
XX
XX DT 23-SEP-2004 (first entry)
XX
XX DE Human facial skin-associated DNA fragment SEQ ID NO 1750.
XX
XX facial skin; human; serial analysis of gene expression; SAGE;
XX homeostasis; biotech; cosmetic; pharmaceutical; ds.
XX
XX Homo sapiens.
XX
XX DE10260928-A1.
XX
XX 08-JUL-2004.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX (HENK ) HENKEL KGAA.
```


XX Petersohn D, Schlotermann K, Gassenmeier T, Holtkoetter O;
PI Contract M, Hofmann K;
XX WPI; 2004-518855/50.
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 5; SEQ ID NO 1750; 577bp; German.
XX
CC This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 4 A; 0 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1028 AGAAGGTGG 1036
Db 2 AGAAGGTGG 10
|||||||
|||||||
RESULT 46
ABI19388
ID ABI19388 standard; DNA; 12 BP.
XX
AC ABI19388;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 319361 for detecting SNP TSC0029179.
XX
KM SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX

DR WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 319361; 29bp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1027 AAGAAGGTG 1035
Db 1 AAGAAGGTG 9
|||||||
|||||||
RESULT 47
ABI08577
ID ABI08577 standard; DNA; 12 BP.
XX
AC ABI08577;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 308550 for detecting SNP TSC0023078.
XX
XX
KM SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 308550; 29bp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC

CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX
SQ Sequence 12 BP; 6 A; 0 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1027 AAGAGGTG 1035
Db 2 AAGAGGTG 10

RESULT 48

ABI25588
ID ABI25588 standard; DNA; 12 BP.

AC ABI25588;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 325561 for detecting SNP TSC0032603.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX MO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.

XX Claim 1; SEQ ID NO 325561; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1027 AAGAGGTG 1035
Db 3 AAGAGGTG 11

RESULT 49
ABI13144
ID ABI13144 standard; DNA; 12 BP.

AC ABI13144;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 313117 for detecting SNP TSC0025502.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX MO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.

XX Claim 1; SEQ ID NO 313117; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 2 A; 0 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1029 GAAGTGGG 1037
Db 4 GAAGTGGG 12

RESULT 50

ABI48769/c
ID ABI48769 standard; DNA; 12 BP.

AC ABI48769;

DT 22-FEB-2002 (first entry)

XX oligonucleotide primer SEQ ID NO 348742 for detecting SNP TSC0045724.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 XX Claim 1; SEQ ID NO 348742; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP). The
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 XX Sequence 12 BP; 1 A; 7 C; 0 G; 4 T; 0 U; 0 Other;
 XX
 XX Query Match 45.0%; Score 9; DB 1; Length 12;
 XX Best Local Similarity 100.0%; Pred. No. 46;
 XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 OY 1029 GAAGGTGGG 1037
 DB 12 GAAGGTGGG 4
 XX
 XX RESULT 51
 XX ABH88612/c
 XX ID ABH88612 standard; DNA; 12 BP.
 XX
 XX ABH88612;
 XX
 XX 22-FEB-2002 (first entry)
 XX
 DE oligonucleotide primer SEQ ID NO 288605 for detecting SNP TSC0013593.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX

PF 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 XX Claim 1; SEQ ID NO 288605; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 XX Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
 XX
 XX Query Match 45.0%; Score 9; DB 1; Length 12;
 XX Best Local Similarity 100.0%; Pred. No. 46;
 XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 OY 1027 AAGAGGTG 1035
 DB 9 AAGAGGTG 1
 XX
 XX RESULT 52
 XX ABI67143
 XX ID ABI67143 standard; DNA; 12 BP.
 XX
 XX ABI67143;
 XX
 XX 22-FEB-2002 (first entry)
 XX
 DE oligonucleotide primer SEQ ID NO 367116 for detecting SNP TSC0056171.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 XX
 XX 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 XX
 XX 07-APR-2000; 2000DE-01019173.
 XX
 XX (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 XX

XX PS Claim 1; SEQ ID NO 367116; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 12 BP; 5 A; 0 C; 4 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1027 AAGAGGTGG 1035
Db 1 AAGAGGTGG 9
XX
XX RESULT 53
XX ABH94365/C
XX ID ABH94365 standard; DNA; 12 BP.
XX AC ABH94365;
XX XX
XX DT 22-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide primer SEQ ID NO 294358 for detecting SNP TSC0016077.
XX XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX XX
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX XX
XX PS Claim 1; SEQ ID NO 294358; 29pp + Sequence Listing; German.
XX XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but

CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 12 BP; 2 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1028 AGAAGGTGG 1036
Db 12 AGAAGGTGG 4
XX
XX RESULT 54
XX ABH96358/C
XX ID ABH96358 standard; DNA; 12 BP.
XX AC ABH96358;
XX XX
XX DT 22-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide primer SEQ ID NO 296351 for detecting SNP TSC0017041.
XX XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX XX
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX XX
XX PS Claim 1; SEQ ID NO 296351; 29pp + Sequence Listing; German.
XX XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 12 BP; 1 A; 7 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1029 GAAGTGGG 1037
Db 12 GAAGTGGG 4

RESULT	55
ID	ABH74429 standard; DNA; 12 BP.
XX	
AC	ABH74429;
XX	
DT	22-FEB-2002 (first entry)
XX	
DE	Oligonucleotide primer SEQ ID NO 274414 for detecting SNP TSC0003539.
XX	
KW	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K;
XX	
DR	WPI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
PS	
XX	Claim 1; SEQ ID NO 274414; 29bp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
CC	
CC	
CC	
SQ	Sequence 12 BP; 3 A; 0 C; 7 G; 2 T; 0 U; 0 Other;
	Query Match 45.0%; Score 9; DB 1; Length 12;
	Best Local Similarity 100.0%; Pred. No. 46;
	Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1029 GAGGTGGG 1037
Dd	3 GAGGTGGG 11
RESULT	56
ID	ABH70993 standard; DNA; 12 BP.
XX	
AC	ABH70993;
XX	
DT	22-FEB-2002 (first entry)
XX	
DE	Oligonucleotide primer SEQ ID NO 270970 for detecting SNP TSC0002341.
XX	
KW	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX	central/nervous system; gastrointestinal; respiratory; immune; metabolic
XX	
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K;
DR	WPI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
XX	Claim 1; SEQ ID NO 270970; 29pp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC000010
CC	-ABG93989, ABH00010-ABF93989, ABH00010-ABH93989 and ABT00010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
SEQ	Sequence 12 BP; 2 A; 0 C; 6 G; 4 T; 0 U; 0 Other;
	Query Match 45.0%; Score 9; DB 1; Length 12;
	Best Local Similarity 100.0%; Pred. No. 46;
	Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0
QY	1029 GAAGGTGGG 1037
DB	3 GAAGGTGGG 11
RESULT 57	
ABH88613/C	
ID	ABH88613 standard; DNA; 12 BP.
XX	
AC	ABH88613;
XX	
XX	22-FEB-2002 (first entry)
DT	
DE	Oligonucleotide primer SEQ ID NO 288606 for detecting SNP TSC0013593.
XX	
KM	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ser
XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 288606; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 1 A; 6 C; 1 G; 4 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1027 AGAAGGTG 1035
Db 9 AAGAAGGTG 1
|||||||
RESULT 58
ABIS2693/C
ID ABIS2693 standard; DNA; 12 BP.
XX
AC ABIS2693;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 352666 for detecting SNP TSC0048025.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PS (EPig-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 352666; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTG 1036
Db 10 AAGAAGGTG 2
|||||||
RESULT 59
ABI40468
ID ABI40468 standard; DNA; 12 BP.
XX
AC ABI40468;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 340441 for detecting SNP TSC0041530.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PS (EPig-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 340441; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 46;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGCTGG 1036
 |||||
 1 AGAAGCTGG 9

Db 1 AGAAGCTGG 9

RESULT 60

AB10163
 ID AB10163 standard; DNA; 12 BP.
 AC AB10163;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX Oligonucleotide primer SEQ ID NO 310136 for detecting SNP TSC0023830.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX W0200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX 06-APR-2001; 2001WO-IB000713.
 PF
 XX 07-APR-2000; 2000DE-01019173.
 PR
 XX (EPIC-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 PT
 XX
 PS Claim 1; SEQ ID NO 310136; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

CC
 CC Sequence 12 BP; 3 A; 0 C; 5 G; 4 T; 0 U; 0 Other;
 SQ
 XX
 XX Query Match 45.0%; Score 9; DB 1; Length 12;
 XX Best Local Similarity 100.0%; Pred. No. 46;
 XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGCTGG 1036
 |||||
 4 AGAAGCTGG 12

Db 4 AGAAGCTGG 12

RESULT 61

ABH94363/C
 ID ABH94363 standard; DNA; 12 BP.
 XX

AC ABH94363;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX Oligonucleotide primer SEQ ID NO 294356 for detecting SNP TSC0016077.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX W0200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX 06-APR-2001; 2001WO-IB000713.
 PF
 XX 07-APR-2000; 2000DE-01019173.
 PR
 XX (EPIC-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 PT
 XX
 PS Claim 1; SEQ ID NO 294356; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

CC
 CC Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
 SQ
 XX
 XX Query Match 45.0%; Score 9; DB 1; Length 12;
 XX Best Local Similarity 100.0%; Pred. No. 46;
 XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGCTGG 1036
 |||||
 12 AGAAGCTGG 4

Db 12 AGAAGCTGG 4

RESULT 62

AB173341
 ID AB173341 standard; DNA; 12 BP.
 AC AB173341;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX Oligonucleotide primer SEQ ID NO 373314 for detecting SNP TSC0059971.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX W0200177384-A2.
 PN

```
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DB-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 373114; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI92073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 5 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1028 AGAGGTGG 1036
XX 1 AGAGGTGG 9
XX
XX RESULT 63
XX AAD25619/c
XX ID AAD25619 standard; DNA; 12 BP.
XX
XX AAD25619;
XX
XX 26-MAR-2002 (first entry)
XX
XX ML/Cy5 LNA probe used for haplotyping MLL-AF4/98(+) chimeric gene.
XX
XX Haplotyping; single molecule detection; luminescent marker;
XX genetic marker; MLL-AF4/98(+); locked nucleic acid; LNA; probe; ss.
XX
XX Unidentified.
XX
XX Key Location/Qualifiers
XX modified_base 1
XX /*tag= a
XX /mod_base= OTHER
XX /note= "N,N'-biscarboxypentyl-5, 5'-
XX disulfonateindodicarboxyanine (Cy5) fluorophore labelled
XX thymine"
XX
XX WO200190418-A1.
XX
XX 29-NOV-2001.
XX
XX 22-MAY-2001; 2001WO-US016394.
XX
XX 22-MAY-2000; 2000US-0206512P.
XX
XX
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XX (REGC ) UNIV CALIFORNIA.
XX
XX Cai H, Goodwin PM, Keller RA, Werner JH;
XX
XX WPI; 2002-083123/11.
XX
XX Rapid haplotyping of DNA or RNA segments, comprises labeling at least 2
XX target sites on a segment of DNA or RNA with separate distinguishable
XX luminescent hybridization probes.
XX
XX Example 1; Page 22; 49pp; English.
XX
XX The invention relates to rapid haplotyping a DNA or RNA segment by single
XX molecule detection. The method involves labelling at least 2 target sites
XX on a DNA or RNA segment with separate distinguishable luminescent marker
XX hybridization probes, where the targets are selected genetic markers and
XX detecting the presence or absence of each luminescent hybridisation probe
XX on each DNA segment to determine the haplotype of each DNA or RNA
XX segment. The method is useful for rapid haplotyping of DNA or RNA
XX for haplotyping MLL-AF4/98(+) chimeric gene
XX
XX Sequence 12 BP; 0 A; 3 C; 3 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1023 GCCCAGAA 1031
XX 10 GCCCAGAA 2
XX
XX RESULT 64
XX AAD25617/c
XX ID AAD25617 standard; DNA; 12 BP.
XX
XX AAD25617;
XX
XX 26-MAR-2002 (first entry)
XX
XX ML/Cy5P PNA probe used for haplotyping MLL-AF4/98(+) chimeric gene.
XX
XX Haplotyping; single molecule detection; luminescent marker;
XX genetic marker; MLL-AF4/98(+); peptide nucleic acid; PNA; probe; ss.
XX
XX Unidentified.
XX
XX Key Location/Qualifiers
XX modified_base 1
XX /*tag= a
XX /mod_base= OTHER
XX /note= "N,N'-biscarboxypentyl-5, 5'-
XX disulfonateindodicarboxyanine (Cy5) fluorophore labelled
XX thymine; This base is linked to the label via linker"
XX
XX misc_feature 12
XX /*tag= b
XX /note= "This base is attached to a linker sequence"
XX
XX WO200190418-A1.
XX
XX 29-NOV-2001.
XX
XX 22-MAY-2001; 2001WO-US016394.
XX
XX 22-MAY-2000; 2000US-0206512P.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
XX Cai H, Goodwin PM, Keller RA, Werner JH;
XX
XX WPI; 2002-083123/11.
XX
XX
```


XX Rapid haplotyping of DNA or RNA segments, comprises labeling at least 2
PT target sites on a segment of DNA or RNA with separate distinguishable
PT luminescent hybridization probes.
XX
PS Example 1, Page 22; 49pp; English.
XX
CC The invention relates to rapid haplotyping a DNA or RNA segment by single
CC molecule detection. The method involves labelling at least 2 target sites
CC on a DNA or RNA segment with separate distinguishable luminescent marker
CC hybridisation probes, where the targets are selected genetic markers and
CC detecting the presence or absence of each luminescent hybridisation probe
CC on each DNA segment to determine the haplotype of each DNA or RNA
CC segment. The method is useful for rapid haplotyping of DNA or RNA
CC segment. The present sequence is a peptide nucleic acid (PNA) probe used
CC for haplotyping MLV-AF4/98(+) chimeric gene
XX
SQ Sequence 12 BP; 0 A; 3 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1023 GCCCAGAA 1031
|||
|||
Db 10 GCCCAGAA 2
RESULT 65
ADP28540/c
ID ADP28540 standard; DNA; 12 BP.
XX
AC ADP28540;
XX
DT 12-AUG-2004 (first entry)
XX
DE Human secreted protein encoding sequence SEQ ID #538.
XX
KW Cytostatic; Antiinflammatory; Immunosuppressive; Antibacterial; Virucide;
KM cancer; Inflammatory; Immune; ds; human secreted protein.
XX
OS Homo sapiens.
XX
PN NC02004035732-A2.
XX
PD 29-APR-2004.
XX
PF 28-AUG-2003; 2003WO-US026780.
XX
PR 29-AUG-2002; 2002US-0406576P.
PR 29-AUG-2002; 2002US-0406579P.
PR 29-AUG-2002; 2002US-0406585P.
PR 29-AUG-2002; 2002US-0406588P.
PR 29-AUG-2002; 2002US-0406608P.
PR 29-AUG-2002; 2002US-0406611P.
PR 29-AUG-2002; 2002US-0406612P.
PR 29-AUG-2002; 2002US-0406616P.
PR 29-AUG-2002; 2002US-0406640P.
PR 29-AUG-2002; 2002US-0406642P.
PR 29-AUG-2002; 2002US-0406653P.
PR 29-AUG-2002; 2002US-0406655P.
PR 29-AUG-2002; 2002US-0406666P.
PR 17-SEP-2002; 2002US-0410946P.
PR 17-SEP-2002; 2002US-0410947P.
PR 17-SEP-2002; 2002US-0410948P.
PR 17-SEP-2002; 2002US-0410949P.
PR 17-SEP-2002; 2002US-0410953P.
PR 17-SEP-2002; 2002US-0410957P.
PR 17-SEP-2002; 2002US-0410958P.
PR 17-SEP-2002; 2002US-0410959P.
PR 17-SEP-2002; 2002US-0410960P.
PR 17-SEP-2002; 2002US-0410961P.

PR 17-SEP-2002; 2002US-0410962P.
PR 17-SEP-2002; 2002US-0411019P.
PR 17-SEP-2002; 2002US-0411022P.
PR 17-SEP-2002; 2002US-0411023P.
PR 17-SEP-2002; 2002US-0411024P.
PR 17-SEP-2002; 2002US-0411032P.
PR 17-SEP-2002; 2002US-0411035P.
PR 17-SEP-2002; 2002US-0411037P.
PR 17-SEP-2002; 2002US-0411041P.
PR 17-SEP-2002; 2002US-0411045P.
PR 17-SEP-2002; 2002US-0411046P.
PR 17-SEP-2002; 2002US-0411048P.
PR 17-SEP-2002; 2002US-0411052P.
PR 17-SEP-2002; 2002US-0411055P.
PR 17-SEP-2002; 2002US-0411073P.
PR 17-SEP-2002; 2002US-0411082P.
PR 17-SEP-2002; 2002US-0411101P.
PR 17-SEP-2002; 2002US-0411111P.
PR 18-APR-2003; 2003US-0463708P.
PR 18-APR-2003; 2003US-0463716P.
PR 18-APR-2003; 2003US-0463732P.
PR 02-MAY-2003; 2003US-0467199P.
PR 02-MAY-2003; 2003US-0467201P.
PR 02-MAY-2003; 2003US-0467203P.
PR 02-MAY-2003; 2003US-0467230P.
PR 19-MAY-2003; 2003US-0471306P.
PR 19-MAY-2003; 2003US-0471366P.
PR 22-MAY-2003; 2003US-0472420P.
PR 22-MAY-2003; 2003US-0472430P.
PR 09-JUN-2003; 2003US-0476609P.
PR 09-JUN-2003; 2003US-0476641P.
PR 08-JUL-2003; 2003US-0485218P.
PR 08-JUL-2003; 2003US-0485223P.
PR 08-JUL-2003; 2003US-0485224P.
PR 14-JUL-2003; 2003US-0486446P.
PR 14-JUL-2003; 2003US-0486480P.
PR 15-JUL-2003; 2003US-0486891P.
PR 15-JUL-2003; 2003US-0486960P.
PR 08-AUG-2003; 2003US-0493341P.
PR 08-AUG-2003; 2003US-0493370P.
PR 08-AUG-2003; 2003US-0493573P.
PR 08-AUG-2003; 2003US-0493577P.
XX
XX (FIVE-) FIVE PRIME THERAPEUTICS INC.
XX
XX Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;
PI Halenbeck RF, Huang MM, Kochakota S, Haishan L, Linnemann T;
PI Pierre X, Wang Y, Wong JGP, Wu G, Zhang H;
XX
XX WPI; 2004-348438/32.
XX
PT New nucleic acid molecule for diagnosing, preventing or treating diseases
PT such as proliferative (e.g. cancer), inflammatory, immune, metabolic,
PT genetic, bacterial and viral diseases.
XX
PS Claim 1; SEQ ID NO 538; 428bp; English.
XX
CC The present invention relates to an isolated nucleic acid molecule
CC encoding a polypeptide which is believed to be cytostatic,
CC antiinflammatory, immunosuppressive, antibacterial and virucidal. The
CC composition and methods are useful for diagnosing, preventing and
CC treating diseases such as proliferative (e.g. cancer), inflammatory,
CC immune, metabolic, genetic, bacterial and viral diseases. The present
CC sequence represents a human secreted protein encoding sequence. The
CC present sequence is available on WIPOMB and is not in the specification.
XX
SQ Sequence 12 BP; 1 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAGC 1033
 |||||
 DB 12 CCAAGAGC 4

RESULT 66
 AAT14161
 ID AAT14161 standard; DNA; 10 BP.
 XX
 AC AAT14161;
 XX
 DT 29-MAY-1996 (first entry)
 XX
 DE Cytokine responsive DNA spacer regulatory element.
 XX
 KM Regulatory element; transcriptional regulatory protein;
 KM signalling molecule; DNA spacer; agonist; antagonist; anaemia;
 KM gene transcription; inflammation; cytopenia; cancer; ss.
 XX
 OS Synthetic.
 XX
 PN WO9528482-A2.
 XX
 PD 26-OCT-1995.
 XX
 PF 10-APR-1995; 95WO-US004477.
 XX
 PR 14-APR-1994; 94US-00228935.
 PR 27-MAR-1995; 95US-00410780.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Seidel HM, Lamb IP;
 XX
 DR WPI; 1995-373797/48.
 XX
 PT DNA spacer regulatory elements responsive to cytokine(s) - for detecting
 PT the presence of transcriptional regulatory protein in a sample.
 XX
 PS Claim 7; Page 125; 135pp; English.
 XX
 SS The present oligonucleotide comprises a regulatory element TT(Nx)AA,
 CC where x is 4-7, and the regulatory element binds an activated
 CC transcriptional regulatory protein in response to a signalling mol., i.e.
 CC a cytokine. This cytokine responsive DNA spacer regulatory element can be
 CC used to detect the presence of a transcriptional regulatory protein in a
 CC sample, and in assays for (ant)agonists of gene transcription. The
 CC identified cpds. may be used to treat cytokine-induced disease states, or
 CC to ameliorate disease states caused by cytokine deficiency, e.g.
 CC inflammation, anaemia, cytopenia and (pre)cancerous conditions
 XX
 SQ Sequence 10 BP; 4 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

QY 1022 TGCCCAAGAA 1031
 |||||
 DB 1 TTCCCAAGAA 10

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 67
 AAV56888
 ID AAV56888 standard; DNA; 10 BP.
 XX
 AC AAV56888;
 XX
 DT 02-DEC-1998 (first entry)
 XX
 DE Regulatory element containing oligonucleotide #47.
 XX

KM Cytokine-responsive regulatory; primer; promoter; detection; isolation;
 KM transcriptional control; STAT protein; screening; agonist; ss.
 XX
 OS Synthetic.
 XX
 PN US5814517-A.
 XX
 PD 29-SEP-1998.
 XX
 PF 27-MAR-1995; 95US-00410779.
 XX
 PR 14-APR-1994; 94US-00228935.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Lamb IP, Seidel HM;
 XX
 DR WPI; 1998-541763/46.
 XX
 PT DNA constructs containing cytokine-responsive regulatory elements -
 PT useful in assays for transcription-regulating proteins or gene
 PT transcription agonists or antagonists.
 XX
 PS Disclosure; Col 12; 58pp; English.
 XX
 SS AAV56842-V56976 and AAV61601-V61631 are oligonucleotides used in the
 CC production of constructs comprising a cytokine-responsive regulatory
 CC element linked to a promoter which is linked to a heterologous coding
 CC sequence so that the coding sequence is under the transcriptional control
 CC of the regulatory element and the promoter, where the regulatory element
 CC has a nucleotide sequence selected from TT(C)NNGAA, TTANYTAA, and TTCWYTAA
 CC where N is A, T, C or G, and Y = 3 or 4. The constructs can be used to
 CC detect or isolate transcription-regulating proteins, e.g. STAT proteins,
 CC in a sample by contacting the sample with the construct so that the
 CC protein binds to the regulatory element, and detecting or separating the
 CC resulting complex. The cells can be used in screening assays for agonists
 CC of gene transcription, in which the level of expression of the coding
 CC sequence is measured in the presence and absence of a test compound or in
 CC the presence of the corresponding cytokine
 XX

SQ Sequence 10 BP; 4 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

QY 1022 TGCCCAAGAA 1031
 |||||
 DB 1 TTCCCAAGAA 10

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 68
 AA279653
 ID AA279653 standard; DNA; 10 BP.
 XX
 AC AA279653;
 XX
 DT 10-APR-2000 (first entry)
 XX
 DE Human dendritic cell SAGE tag, SEQ ID NO:2081.
 XX
 SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KM APC; monocyte-derived dendritic cell; differential gene expression;
 KM immunostimulatory cofactor; costimulatory factor; CTL;
 KM cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO965924-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013800.

XX PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089955P.
PR 19-JUN-1998; 98US-0089966P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089988P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0111715P.
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
XX WPI: 2000-106077/09.
XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.
XX Claim 1; Page 124; 130pp; English.
XX Sequence AA277834-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the

CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
XX Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
CY 1028 AGAAGTGGG 1037
Db 1 AGAGGTGGG 10
|||||
RESULT 69
AA277834/c
ID AA277834 standard; DNA; 10 BP.
XX
AC AA277834;
XX
DT 10-APR-2000 (first entry)
XX
XX Human dendritic cell SAGE tag, SEQ ID NO:262.
DE
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
OS
PN WO9965924-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013800.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089955P.
PR 19-JUN-1998; 98US-0089966P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089988P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
PI

XX WPI; 2000-106077/09.
XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.
XX Claim 1; Page 71; 130pp; English.
XX Sequences AA27573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells. Immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
XX
SQ Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1022 TGCCCAAGAA 1031
Db 10 TGCCCAAGCA 1
RESULT 70
AA278009/c
ID AA278009 standard; DNA; 10 BP.
XX
AC AA278009;
XX
DT 10-APR-2000 (first entry)
XX
DE Human dendritic cell SAGE tag, SEQ ID NO:437.
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW Immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS Homo sapiens.
XX
XX NO9965924-A2.
XX
XX 23-DEC-1999.
XX

PF 18-JUN-1999; 99WO-US013800.
XX
XX 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
XX (GENZYME) GENZYME CORP.
PA (ROBE) ROBERTS B. L.
PA (SHAN) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
XX
PT Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX Claim 1; Page 77; 130pp; English.
XX
XX Sequences AA27573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells. Immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen

CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
XX
SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGCTGG 1036
DB 10 AAGCAGCTGG 1
RESULT 71
AAZ84938
ID AAZ84938 standard; DNA; 10 BP.
XX
AC AAZ84938;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #4172.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
Claim 1; Page 170; 219pp; English.
XX
PS AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in

CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1023 GCCCAGAG 1032
DB 1 GCACAGAG 10
RESULT 72
AAZ85708/C
ID AAZ85708 standard; DNA; 10 BP.
XX
AC AAZ85708;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #4942.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
Claim 1; Page 190; 219pp; English.
XX
PS AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),

CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines. For diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 0 A; 3 C; 4 G; 3 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1023 GCCCAGAG 1032
DB 10 GCCCAGCAG 1
RESULT 73
AAZ81181/c
ID AAZ81181 standard; DNA; 10 BP.
XX
AC AAZ81181;
XX
DT 07-APR-2000 (first entry)
XX
DB Metastatic breast tumour cell upregulated transcript tag #415.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089897P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 69; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from

CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines. For diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 1 A; 1 C; 4 G; 4 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1021 CTCGCCAGA 1030
DB 10 CTCGCCAAA 1
RESULT 74
AAZ80869/c
ID AAZ80869 standard; DNA; 10 BP.
XX
AC AAZ80869;
XX
DT 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #103.
DE
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089897P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 61; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.

Compound that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy.

SQ Sequence 10 BP; 0 A; 7 C; 0 G; 3 T; 0 U; 0 Other;

Query Match	42.0%;	Score 8.4;	DB 1;	Length 10;
Similarity	90.0%;	Pred. No. 53;		
Best Local	9;	Conservative	1;	Indels 0;
Matches				Gaps 0;

QY	1028	AGAAGTGGG	1037
Db	10	AGAAGGGGG	1

RESULT 75
AAZ79893/c
ID AAZ79893 standard; DNA; 10 BP.

AC AAZ79893;

DT 10-APR-2000 (first entry)

Human dendritic cell preferentially expressed SAGE tag, SEQ ID NO:184.

KM SAGE tag; serial analysis of gene expression; diagnosis;
KM differential gene expression; characterisation; targeted expression;
KM tumour; cancer; immunotherapy; 88.

OS Homo sapiens.

PN WO9966303-A2.

PD 23-DEC-1999

PF 17-JUN-1999; 99WO-US013820.

PR	19-JUN-1598	98US-0088833P
PR	19-JUN-1598	98US-0088844P
PR	19-JUN-1598	98US-0088953P
PR	19-JUN-1598	98US-0088978P
PR	19-JUN-1598	98US-0088991P
PR	19-JUN-1598	98US-0088992P
PR	19-JUN-1598	98US-0089933P
PR	19-JUN-1598	98US-0089944P
PR	19-JUN-1598	98US-0089977P
PR	19-JUN-1598	98US-0089979P
PR	19-JUN-1598	98US-0090000P
PR	19-JUN-1598	98US-0090035P
PR	19-JUN-1598	98US-0090036P
PR	19-JUN-1598	98US-0090039P
PR	19-JUN-1598	98US-0090040P
PR	19-JUN-1598	98US-0090041P
PR	19-JUN-1598	98US-0090042P
PR	19-JUN-1598	98US-0090043P
PR	19-JUN-1598	98US-0090044P
PR	19-JUN-1598	98US-0090045P
PR	19-JUN-1598	98US-0090047P
PR	19-JUN-1598	98US-0090048P
PR	19-JUN-1598	98US-0090072P
PR	19-JUN-1598	98US-0090076P
PR	19-JUN-1598	98US-0090077P
PR	19-JUN-1598	98US-0090078P
PR	19-JUN-1598	98US-0090079P

PR	19-JUN-1998;	98US-0090080P.
PR	08-DEC-1998;	98US-0111715P.

PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.

PI Roberts BL, Shankara S;

DR WPI; 2000-106132/09.

PT New polynucleotide useful in cancer immunotherapy.

PS Claim 1; Page 62; 97pp; English.

CC Sequences Aa279710-279916 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts which are
CC differentially expressed in a variety of normal or malignant cell types.
CC Some of the transcripts correspond to known genes or ESTs (expressed
CC sequence tags) which were previously unknown to be preferentially or
CC differentially expressed in that particular cell type, while other
CC transcripts correspond to novel genes. The invention also provides a
CC nucleotide comprising a promoter sequence derived from one of the
CC differentially expressed genes, which may optionally be operably linked
CC to a foreign nucleotide sequence, and gene delivery vehicles and host
CC cells comprising the polynucleotides of the invention. A nucleotide
CC comprising sequences Aa279710-279916 may be used in diagnostic procedures
CC to characterize a cell of a specific tissue type and to determine whether
CC it is normal or malignant. They may be used to screen for agents that
CC modulate expression of differentially expressed genes compound. The
CC promoter/foreign gene construct of the invention may be used for
CC targeted expression of the foreign gene in a particular cell type. For
CC example, a promoter derived from a gene preferentially expressed in
CC dendritic cells (antigen-presenting cells, or APCs), may be operably
CC linked to a sequence encoding an immunostimulatory molecule and a
CC sequence encoding an antigen. Such a construct could be transduced into
CC APCs and would be useful for inducing an immune response by educating
CC immune effector cells *in vivo*, or in cancer immunotherapy

Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;

Query Match	42.0%	Score 8.4	DB 1	length 10
Best Local Similarity	90.0%	Pred. NO.53		
Matches 9	Conservative 0	Mismatches 1	Indels 0	Gaps 0

QY	1022	TGCCCAAGAA	1031
Db	10	TGCCCAAGCA	1

RESULT 76
AAA73656
ID AAA73656 standard; DNA; 10 BP

AC AAA73656;

DT 30-JAN-2001 (first entry)

Probe #25 for sequencing by hybridisation

KW Nucleic acid sequencing; sequencing by hybridisation; SBH; probe; ss.

OS Synthetic.

PN WO2000040758-A2

PD 13-JUL-2000

PF 06-JAN-2000; 2000WO-US0000458.

PR 06-JAN-1999; 99US-0115284P.

PA (HYSE-) HYSEQ INC.

XX
PI Drmanac R, Drmanac S, Kita D, Cooke C, Xu C,
XX
DR WPI; 2000-475839/41.
XX
PT Identifying one or more sequences of a target nucleic acid (NA), useful
PT for parallel analyses, comprises contacting the NA with a set of pools of
XX probes comprising mixture of probes with different information regions.
XX
PS Disclosure; Page 53; 196pp; English.
XX
XX The present sequence is a probe used to demonstrate the method of the
CC invention, which is concerned with the use of pools of probes to enable
CC sequencing by hybridisation, a process known as SBH. Overlapping probes
CC are used which allows the identification of sequences longer than the
CC probe length, and either the target nucleic acid or the probe is
CC labelled. The method of the invention is useful for assembling sequences
CC and in parallel analyses
XX
SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
OY 1020 TCTGCCCAAG 1029
1 TCTCCCAAG 10
XX
DB
XX
RESULT 77
AAH63873
ID AAH63873 standard; cDNA; 10 BP.
XX
XX AAH63873;
AC
XX
DT 20-SEP-2001 (first entry)
XX
DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 713.
XX
XX Human; transcriptome; gene expression pattern; cancer; drug screening;
KM cancer diagnosis; cell specific gene expression; 88.
XX
XX Homo sapiens.
OS
XX MO200138577-A2.
PN
XX 31-MAY-2001.
PD
XX 21-NOV-2000; 2000WO-US031922.
PF
XX 24-NOV-1999; 99US-00448480.
PR
XX (UYJO) UNIV JOHNS HOPKINS.
PA
XX Velculescu VE, Vogelstein B, Kinzler KW;
PI Velculescu VE, Vogelstein B, Kinzler KW;
XX WPI; 2001-367706/38.
DR
XX
PT New isolated polynucleotides, useful for identifying specific cell type,
PT such as cancer cell, comprises transcriptomes expressed in particular
PT cell types.
XX
PS Claim 13; Page 55; 94pp; English.
XX
XX The present invention describes a method of identifying the type of cell
CC in a sample, involving determining which of the sequences AAH63161-
CC AAH64724 is expressed by the cell. The transcriptomes described in the
CC invention are cell-type specific, cancer specific or ubiquitously
CC expressed in humans. They can also be used to screen for drugs, reduce
CC cancer specific gene expression, standardise expression and restore the
CC function of a diseased cell or tissue. The present sequence is one of the
CC transcriptomes described in the exemplification of the invention

XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
OY 1023 GCCCAAGAG 1032
1 GCACAGAG 10
XX
DB
XX
RESULT 78
AAF33792/C
ID AAF33792 standard; DNA; 10 BP.
XX
AC AAF33792;
XX
XX 23-MAR-2001 (first entry)
DT
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11931.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; de.
XX
XX Saccharomyces cerevisiae.
OS
XX MO200077214-A2.
PN
XX 21-DEC-2000.
PD
XX 14-JUN-2000; 2000WO-US016223.
PF
XX 16-JUN-1999; 99US-00335032.
PR
XX
XX (UYJO) UNIV JOHNS HOPKINS.
PA
XX Velculescu V, Vogelstein B, Kinzler K;
PI Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
DR
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 376; 419pp; English.
PS
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from 10g
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064

CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 3 A; 0 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Gy 1019 TTCTGCCCAA 1028
Db 10 TTCTACCCAA 1
RESULT 79
AAf34723
ID AAF34723 standard; DNA; 10 BP.
XX
AC AAF34723;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1462.
XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN MO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000MO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculeacu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 52; 419pp; English.
XX
PS The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44054
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 4 A; 1 C; 3 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Gy 1025 CCAAGAGGT 1034
Db 1 CTAAGAGGT 10
RESULT 80
AAf38664
ID AAF38664 standard; DNA; 10 BP.
XX
AC AAF38664;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5403.
XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN MO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000MO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculeacu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 193; 419pp; English.
XX
PS The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
CY 1018 CTTGCGCCA 1027
DB 1 CTTGCGCCA 10
RESULT 83
AAFA0919/C
ID AAF40919 standard; DNA; 10 BP.
XX
XX AAF40919;
AC
XX 23-MAR-2001 (first entry)
DT
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:7658.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
OS
XX MO200077214-A2.
PN
XX 21-DEC-2000.
PD
XX 14-JUN-2000; 2000MO-US016223.
PF
XX 16-JUN-1999; 99US-00335032.
PR
XX (UYJO) UNIV JOHNS HOPKINS.
PA
XX Velculescu V, Vogelstein B, Kinzler K;
PI
XX WPI; 2001-061874/07.
DR
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 273; 419pp; English.
PS
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 2 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
CY 1028 AGAAGTCGG 1037
DB 10 ATAGCTGGG 1
RESULT 84
AAF38830
ID AAF38830 standard; DNA; 10 BP.
XX
XX AAF38830;
AC
XX 23-MAR-2001 (first entry)
DT
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5569.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
OS
XX MO200077214-A2.
PN
XX 21-DEC-2000.
PD
XX 14-JUN-2000; 2000MO-US016223.
PF
XX 16-JUN-1999; 99US-00335032.
PR
XX (UYJO) UNIV JOHNS HOPKINS.
PA
XX Velculescu V, Vogelstein B, Kinzler K;
PI
XX WPI; 2001-061874/07.
DR
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 198; 419pp; English.
PS
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SO Sequence 10 BP; 4 A; 0 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1027 AAGAGGTGG 1036
Db 1 AAGAGGTGG 10

RESULT 85

AAFA1899 standard; DNA; 10 BP.

AAFA1899;

23-MAR-2001 (first entry)

YEAST NORF gene SAGE tag oligonucleotide SEQ ID NO:8638.

XX Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.

OS *Saccharomyces cerevisiae*.

PN MO200077214-A2.

PD 21-DEC-2000.

PF 14-JUN-2000; 2000WO-US016223.

PR 16-JUN-1999; 99US-00335032.

PA (UYJO) UNIV JOHNS HOPKINS.

PI Velculescu V, Vogelstein B, Kinzler K;

WPI; 2001-061874/07.

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 308; 419pp; English.

CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame, or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SO Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1023 GCCCAAGAG 1032
Db 1 GACCAAGAG 10

RESULT 86

AAFA0814 standard; DNA; 10 BP.

AAFA0814;

23-MAR-2001 (first entry)

YEAST NORF gene SAGE tag oligonucleotide SEQ ID NO:7553.

XX Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.

OS *Saccharomyces cerevisiae*.

PN MO200077214-A2.

PD 21-DEC-2000.

PF 14-JUN-2000; 2000WO-US016223.

PR 16-JUN-1999; 99US-00335032.

PA (UYJO) UNIV JOHNS HOPKINS.

PI Velculescu V, Vogelstein B, Kinzler K;

WPI; 2001-061874/07.

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 269; 419pp; English.

XX

CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC
 XX
 SQ Sequence 10 BP; 4 A; 2 C; 2 G; 2 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1025 CCAAGAGT 1034
 ID 1 CCAAGAGT 10
 Db
 RESULT 87
 ABL88354
 ID ABL88354 standard; DNA; 10 BP.
 XX
 AC ABL88354;
 XX
 DT 20-MAY-2002 (first entry)
 XX
 DE Human CHRNAE gene polymorphism detection primer, SEQ ID NO:88.
 XX
 KM Human, cholinergic receptor nicotinic epsilon polypeptide; CHRNAE;
 KM chromosome 17p13-12; acetylcholine receptor; AChR;
 KM neuromuscular junction; skeletal muscle; postnatal development;
 KM congenital myasthenic syndrome; CMS; haplotyping; genotyping; haplotype;
 KM genetic variant; single nucleotide polymorphism; SNP; gene therapy;
 KM drug screening; primer extension; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200198316-A2.
 XX
 PD 27-DEC-2001.
 XX
 PF 20-JUN-2001; 2001WO-US019835.
 XX
 PR 20-JUN-2000; 2000US-0212870P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PT Amaro E, Bieganski KM, Klem SE, Koshy B, Tangway DA;
 DR WPI; 2002-130787/17.
 XX
 PT Novel genetic variants of cholinergic receptor, nicotinic, epsilon

PT polypeptide gene useful in studying expression and function of the
 PT protein, and for screening drugs to treat diseases e.g. congenital
 PT myasthenic syndrome.
 XX
 PS Claim 19; Page 15; 104pp; English.
 XX
 CC The invention relates to a method for haplotyping the cholinergic
 CC receptor, nicotinic, epsilon polypeptide (CHRNAE) gene (ABL88268) of an
 CC individual, and also describes 17 novel polymorphic sites within the
 CC human CHRNAE gene. The CHRNAE gene is located on chromosome 17p13-12 and
 CC contains 12 exons which encode a 493 amino acid protein (ABR49112). The
 CC CHRNAE protein is one of the 5 subunits of mammalian acetylcholine
 CC receptors (AChRs) found at neuromuscular junctions in juveniles and
 CC adults, and is essential for the normal postnatal development of skeletal
 CC muscle. Mutations in the CHRNAE gene are associated with congenital
 CC myasthenic syndrome (CMS). CHRNAE gene sequences can therefore be used in
 CC gene therapy. The CHRNAE gene is also useful for studying the expression
 CC and function of CHRNAE, and in expressing CHRNAE protein for use in
 CC screening for candidate drugs to treat diseases related to CHRNAE. The
 CC method of the invention is useful for haplotyping the CHRNAE gene in an
 CC individual, and can also be used in pharmaceutical research to validate
 CC CHRNAE as a candidate target for, and in design of clinical trials of
 CC candidate drugs for, treating a specific condition drugs or disease
 CC predicted to be associated with CHRNAE activity such as CMS. Polymorphisms
 CC in the target region may be determined by the use of allele-specific
 CC oligonucleotides (ASOs; ABL88370-ABL88320) as probes and primers, and by
 CC primer extension using oligonucleotide primers comprising sequences
 CC ABL88371-ABL88354. The CHRNAE protein is useful for improving the
 CC efficiency and reliability of several steps in the discovery and
 CC development of drugs for treating diseases associated with CHRNAE
 CC activity, and may be used to screen drugs which target CHRNAE. Sequences
 CC ABL88321-ABL88354 represent sequences that are specifically claimed as
 CC components of primers used to detect polymorphisms in the CHRNAE gene by
 CC primer extension
 CC
 XX
 SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1028 AGAAGTGGG 1037
 ID 1 AGAAGTGGG 10
 Db
 RESULT 88
 ABR37010/c
 ID ABR37010 standard; DNA; 10 BP.
 XX
 AC ABR37010;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human ALA2 gene allele-specific oligonucleotide PCR primer #9.
 XX
 KM Human; aminolevulinic delta synthase 2; ALA2; haplotyping; primer; ss;
 KM haplotype pair; single nucleotide polymorphism; genotyping; antianemic;
 KM gene therapy; drug screening; X-linked sideroblastic anaemia; sequencing;
 KM hypochromic anaemia; probe; PCR.
 XX
 OS Homo sapiens.
 XX
 PN WO200210454-A2.
 XX
 PD 07-FEB-2002.
 XX
 PF 30-JUL-2001; 2001WO-US023914.
 XX
 PR 28-JUL-2000; 2000US-0221827P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX

PI Choi JY, Koshy B, Kiem S, Stephens JC;
XX WPI; 2002-188755/24.
XX
PT New isolated human aminolevulinate delta synthase 2 polynucleotide,
PT useful for therapeutic purposes, for studying the expression and function
PT of the polynucleotide, and for expressing the aminolevulinate protein.
XX
PS Claim 18; Page 14; 90pp; English.
XX
CC The invention relates to single nucleotide polymorphisms in the gene
CC encoding human aminolevulinate delta synthase 2 (ALAS2). A method for
CC haplotyping the ALAS2 gene in an individual comprises identifying the
CC nucleotide at one or more polymorphic sites and determining whether one
CC of the copies of the gene is defined by one of the ALAS2 haplotypes given
CC in the specification or whether both copies are defined by a haplotype
CC pair. This method is useful in genotyping, whereby all possible haplotype
CC pairs can be assigned to specific genotypes. An association between a
CC trait and a haplotype or haplotype pair of the ALAS2 gene can be
CC identified by comparing the frequency of the haplotype or haplotype pair
CC in a population exhibiting the trait with the frequency of the haplotype
CC or haplotype pair in a reference population, where a higher haplotype
CC frequency in the trait population indicates the trait is associated with
CC the haplotype or haplotype pair. ALAS2 and its corresponding DNA are used
CC for studying the expression and function of ALAS2, for use in screening
CC for candidate drugs to treat diseases related to ALAS2 activity, such as
CC X-linked sideroblastic anaemia and hypochromic anaemia. The sequences are
CC also useful for studying the effect of variation on the biological
CC activity of ALAS2 as well as on the binding affinity of candidate drugs
CC targeting ALAS2. Sequences ABK36963-ABK37027 represent allele-specific
CC oligonucleotide probes, sequencing primers and PCR primers used to detect
CC ALAS2 gene polymorphisms
XX
SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
Qy Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
Db 10 GCCCAGATG 1
RESULT 89
ABL39516
ID ABL39516 standard; DNA; 10 BP.
XX
AC ABL39516;
XX
DT 22-APR-2002 (first entry)
XX
DE Human ETPB primer-extension oligonucleotide 22.
XX
KW Human; electron-transfer flavoprotein beta polypeptide; ETPB;
KW electron acceptor; mitochondrial matrix; glutaric acidaemia type II;
KW novel polymorphic site; novel polymorphism; ETPB genotype; ss; GAT;
KW ETPB haplotype; transgenic animal; primer; probe; chromosome 19q13;
KW primer-extension oligonucleotide; single nucleotide polymorphism; SNP.
XX
OS Homo sapiens.
XX
PN WO200202580-A2.
XX
PD 10-JAN-2002.
XX
PF 05-JUL-2001; 2001WO-US021306.
XX
PR 05-JUL-2000; 2000US-0215984P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bentivegna SC, Bieglecki KM, Kazemi A, Koshy B;

XX
DR WPI; 2002-154722/20.
XX
PT Novel isolated human electron-transfer-flavoprotein, beta polynucleotide,
PT useful for therapeutic purposes, for studying the expression and function
PT of the polynucleotide, and for expressing the flavoprotein.
XX
PS Claim 19; Page 15; 143pp; English.
XX
CC The invention comprises DNA, cDNA and protein sequences of the human
CC electron-transfer flavoprotein, beta polypeptide (ETPB) gene (located on
CC chromosome 19q13.3-13.4). The invention specifically relates to the
CC identification of 27 novel polymorphic sites within the ETPB gene.
CC Electron-transfer flavoprotein (ETP) is an obligatory electron acceptor
CC for rane primary flavoprotein dehydrogenases and is located in the
CC mitochondrial matrix. ETP is composed of an alpha (ETPA) and a beta
CC (ETPB) subunit. Electrons accepted by ETP are transferred to the
CC mitochondrial respiratory chain by ETP dehydrogenases (ETPDHs).
CC Deficiency of ETP or ETPB leads to glutaric acidaemia type II (GATII).
CC Therefore ETPB is a pharmaceutically-important gene in the treatment of
CC GATII. The novel ETPB polymorphisms identified in the invention are useful
CC for genotyping and haplotyping the ETPB gene of an individual. The ETPB
CC protein and nucleic acids of the invention are useful for studying the
CC expression and function of ETPB in vivo. The ETPB protein and nucleic
CC acids are also useful for testing the efficacy of therapeutic agents and
CC compounds for glutaric acidaemia type II. The nucleic acids of the
CC invention are useful in the production of a transgenic animal expressing
CC the ETPB gene. Nucleic acids ABL39414-ABL39440 represent claimed ETPB
CC allele-specific probes. Nucleic acids ABL39441-ABL39494 represent claimed
CC ETPB allele-specific PCR primers. Nucleic acids ABL39495-ABL39548
CC represent claimed ETPB primer-extension oligonucleotides
XX
SQ Sequence 10 BP; 3 A; 5 C; 1 G; 1 T; 0 U; 0 Other;
Qy Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1021 CTCGCCAAGA 1030
Db 1 CTCGCCAAGA 10
RESULT 90
ABL52253/c
ID ABL52253 standard; DNA; 10 BP.
XX
AC ABL52253;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human PHK2 preferred oligonucleotide primer SEQ ID NO:40.
XX
KW Human; phosphorylase kinase gamma 2 (testis); PHK2; enzyme; SNP;
KW phosphorylase kinase gamma 2; single nucleotide polymorphism;
KW polymorphic; hepatocytic; gene therapy; glycogen storage disease;
KW liver cirrhosis; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200194365-A2.
XX
PD 13-DEC-2001.
XX
PF 11-JUN-2001; 2001WO-US018814.
XX
PR 09-JUN-2000; 2000US-0210568P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Koshy B, Sanchis A, Sausker EA;
XX
DR WPI; 2002-404359/43.

PT	XX	New variants of phosphorylase kinase gamma 2 isoenzyme, useful for
PT	XX	improving efficiency and reliability in the development of drugs for
PT	XX	treating diseases e.g. liver cirrhosis.
PS	XX	
XX	XX	Claim 18; Page 14; 76pp; English.
CC	CC	The present invention describes an isolated polynucleotide (I) comprising
CC	CC	a nucleotide sequence which is a polymorphic variant of a reference
CC	CC	sequence for human phosphorylase kinase gamma2 (testis) (PHKG2) gene or
CC	CC	its fragment, or a polymorphic variant of a reference sequence for a
CC	CC	PHKG2 cDNA or its fragment. Also described is an isolated polypeptide
CC	CC	(II) comprising an amino acid sequence which is a polymorphic variant of
CC	CC	a reference sequence for PHKG2 protein or its fragment, where the
CC	CC	reference sequence comprises a sequence (see ABB09290) of 406 amino
CC	CC	acids, and the polymorphic variant comprises one or more variant amino
CC	CC	acids selected from glutamic acid at a position corresponding to amino
CC	CC	acid position 153 and tryptophan at position corresponding to amino acid
CC	CC	position 329. (II) has hepatocytic activity and can be used in gene
CC	CC	therapy. (III) is useful in screening for drugs targeting (II), by
CC	CC	contacting a PHKG2 polymorphic variant with a candidate agent and
CC	CC	assaying for binding activity. The identified candidate agents targeting
CC	CC	PHKG2, are useful for treating liver cirrhosis and glycogen storage
CC	CC	diseases. The present sequence represents a preferred oligonucleotide
CC	CC	primer for the PHKG2 gene, which is used in the exemplification of the
CC	CC	present invention
SQ	XX	
		Sequence 10 BP; 1 A; 7 C; 0 G; 2 T; 0 U; 0 Other;
Query Match		42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity		90.0%; Pred. No. 53;
Matches	9; Conservative	0; Mismatches 1; Indels 0; Gaps 0;
QY		
	1028 AGAAGTGGG 1037	
Db	10 AGGAGTGGG 1	
RESULT 91		
ABLS2252		
ID	ABLS2252 standard; DNA; 10 BP.	
XX		
AC	ABLS2252;	
XX		
XX	15-JUN-2002 (first entry)	
XX		
DE	Human PHKG2 preferred oligonucleotide primer SEQ ID NO:39.	
XX		
XX	Human; phosphorylase kinase gamma 2 (testis); PHKG2; enzyme; SNF;	
KW	phosphorylase kinase gamma 2; single nucleotide polymorphism;	
KM	polymorphic; hepatocytic; gene therapy; glycogen storage disease;	
XX	liver cirrhosis; primer; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200194365-A2.	
XX		
PD	13-DEC-2001.	
XX		
PF	11-JUN-2001; 2001WO-US018814.	
XX		
PR	09-JUN-2000; 2000US-0210568P.	
XX		
PA	(GENA-) GENAISANCE PHARM INC.	
XX		
PI	Choi JY, Koehy B, Sanchis A, Sauker EA;	
XX		
XX	WPI; 2002-404359/43.	
DR		
PT	New variants of phosphorylase kinase gamma 2 isoenzyme, useful for	
PT	improving efficiency and reliability in the development of drugs for	
XX	treating diseases e.g. liver cirrhosis.	

PS Claim 18, Page 14; 76pp; English.

XX The present invention describes an isolated polynucleotide (1) comprising
CC a nucleotide sequence which is a polymorphic variant of a reference
CC sequence for human phosphorylase kinase gamma2 (testis) (PHKG2) gene or
CC its fragment, or a polymorphic variant of a reference sequence for a
CC PHKG2 cDNA or its fragment. Also described is an isolated polypeptide
CC (11) comprising an amino acid sequence which is a polymorphic variant of
CC a reference sequence for PHKG2 protein or its fragment, where the
CC reference sequence comprises a sequence (see AB809290) of 406 amino
CC acids, and the polymorphic variant comprises one or more variant amino
CC acids selected from glutamic acid at a position corresponding to amino
CC acid position 153 and tryptophan at position corresponding to amino acid
CC position 329. (1) has hepatotropic activity and can be used in gene
CC therapy. (11) is useful in screening for drugs targeting (11), by
CC contacting a PHKG2 polymorphic variant with a candidate agent and
CC assaying for binding activity. The identified candidate agents targeting
CC PHKG2, are useful for treating liver cirrhosis and glycogen storage
CC diseases. The present sequence represents a preferred oligonucleotide
CC primer for the PHKG2 gene, which is used in the exemplification of the
CC present invention

XX SQ Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

XX Query Match 42.0%; Score 8.4; DB 1; Length 10;
XX Best Local Similarity 90.0%; Pred. No. 53;
XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0

OY 1028 AGAAGTGGG 1037
XX |||||||
Db 1 AGGAGTGGG 10

RESULT 92
ID ABV78454/C
XX ABV78454 standard; cDNA; 10 BP.
XX
XX ABV78454;
XX
XX 29-NOV-2002 (first entry)
XX
XX Human transcription factor CA150 SAGE tag, SEQ ID NO:165.
XX
XX SAGE tag; serial analysis of gene expression; human; Th1 cell;
XX activated T cell; T lymphocyte; immune response; expression pattern;
XX preferential expression; immune disorder; ss.
XX
XX Homo sapiens.
XX
XX JP2002186482-A.
XX
XX 02-JUL-2002.
XX
XX 19-DEC-2000; 2000JP-00385816.
XX
XX 19-DEC-2000; 2000JP-00385816.
XX
XX 19-DEC-2000; 2000JP-00385816.
XX
XX (KAGA-) KAGAKU GIUTSU SHINKO JIGYODAN.
XX
XX WPI; 2002-594261/64.
XX
XX
XX Human activated Th1 and Th2 cell expression gene group, useful for the
XX diagnosis and treatment of Th1 and Th2-related diseases.
XX
XX Claim 19; Page 11; 60pp; Japanese.

XX The invention relates to SAGE (serial analysis of gene expression) tags
CC representing groups of genes which are expressed in activated human Th1
CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence
CC of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif
CC lying nearest to the polyA region of cDNAs derived from a variety of
CC genes. These tags serve to uniquely identify each transcript and can thus
CC be used to analyse the pattern of gene expression in particular cell

CC types. The invention also relates to proteins encoded by the genes
CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and
CC inhibitors of the expression of groups of genes that are expressed in
CC either or both the two cell types. Groups of genes expressed in Th1
CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1
CC and Th2-related disorders. Sequences ABV78390-ABV78560 are SAGE tags
CC representing 171 genes which are more highly expressed in Th1 cells
CC compared with Th2 cells
XX
SQ Sequence 10 BP; 3 A; 2 C; 3 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1019 TTCTGCCCA 1028
Db 10 TTCTGCCCA 1
RESULT 93
ABV84246
ID ABV84246 standard; cDNA; 10 BP.
XX
AC ABV84246;
XX
DT 12-DEC-2002 (first entry)
XX
DE Human mitochondrial F0 complex ATP synthase-like EST SAGE tag #56.
XX
KW SAGE tag; serial analysis of gene expression; human; chronic hepatitis C;
KW CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
KW expression pattern; differential expression; EST; expressed sequence tag;
KW ss.
XX
XX Homo sapiens.
OS
XX
XX JP2002209591-A.
PN
XX
PD 30-JUL-2002.
XX
XX 19-JAN-2001; 2001JP-00012328.
PF
XX
XX 19-JAN-2001; 2001JP-00012328.
PR
XX
XX (KAGA-) KAGAKU GIUTSU SHINKO JIGYODAN.
PA
XX
XX WPI; 2002-631294/68.
DR
XX
XX Human chronic hepatitis C tissue expression exasperating gene group
PT comprises 100 high-ranking genes.
XX
XX Claim 1; Page 11; 139pp; Japanese.
PS
XX The invention relates to SAGE (serial analysis of gene expression) tags
CC representing groups of genes which are differentially expressed in human
CC chronic hepatitis C (CH) liver tissue or hepatitis C-induced
CC hepatocellular carcinoma (HCC) compared with normal human liver tissue.
CC The SAGE tags of this invention consist of a sequence of 10 nucleotides
CC located downstream of the 5'-CATG-3' sequence motif lying nearest to the
CC polyA region of cDNAs derived from a variety of genes. These tags serve
CC to uniquely identify each transcript and can thus be used to analyse the
CC pattern of gene expression in particular cell types. The invention also
CC relates to proteins encoded by the genes expressed in chronic hepatitis C
CC liver tissue or HCC, antibodies against these proteins, and inhibitors of
CC the expression of groups of genes that are overexpressed in chronic
CC hepatitis C liver tissue or HCC. Groups of genes differentially expressed
CC in chronic hepatitis C tissue or HCC may be used for the diagnosis and
CC treatment of these diseases. Such genes, inhibitors of their expression
CC or activity, and antibodies against the gene products may be used in the
CC development of drugs to treat chronic hepatitis C and/or HCC. Sequences
CC ABV84191-ABV84290 are SAGE tags representing the 100 most highly
CC expressed genes out of those genes which are overexpressed in chronic

CC hepatitis C liver tissue compared with normal liver tissue
XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
Db 1 GCCCAGAG 10
RESULT 94
ABK23703
ID ABK23703 standard; DNA; 10 BP.
XX
AC ABK23703;
XX
DT 09-APR-2002 (first entry)
XX
DE Transcript tag DNA sequence #292 induced or suppressed by N-myc.
XX
XX Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
KW myc oncogene; N-myc; human neuroblastoma; cytosolic; ds.
XX
XX Homo sapiens.
OS
XX
XX W0200185941-A2.
PN
XX
PD 15-NOV-2001.
XX
XX 11-MAY-2001; 2001MO-NL000361.
PF
XX
XX 11-MAY-2000; 2000EP-00201698.
PR
XX
XX 29-JUN-2000; 2000EP-00202284.
PR
XX
XX (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BLJ VAN.
PA
XX
XX Versteeg R, Caron HN;
PI
XX
XX WPI; 2002-066603/09.
DR
XX
XX A new nucleic acid library of myc-dependent downstream genes capable of
PT supporting a neoplastic characteristic of cancer is useful to find new
PT therapies and diagnoses for cancer.
XX
XX Disclosure; Page 57; 69pp; English.
PS
XX
XX The present invention relates to a nucleic acid library comprising myc-
CC dependent downstream genes or their functional fragments essentially
CC capable of supporting a neoplastic character of cancer such as growth,
CC invasion or spread. These myc target or tag sequences are identified by
CC SAGE (serial analysis of gene expression). The library is useful to find
CC new diagnoses and treatments for cancer. The invention is also useful to
CC enhance production of recombinant proteins in a production system with
CC high expression of endogenous or transfected myc oncogenes. ABK23412-
CC ABK23828 represent transcript tag DNA sequences that are activated or
CC repressed by N-myc in human neuroblastoma
XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
Db 1 GCCCAGAG 10
RESULT 95

ABN84506/c
 ID ABN84506 standard; DNA; 10 BP.
 XX
 AC ABN84506;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Rat smooth muscle myosin heavy chain gene Carg2 motif.
 XX
 KM Smooth muscle; myosin; SM-MHC; rat; gene therapy; promoter; Carg2;
 KM antiatherosclerotic; antiaesthetic; antiinflammatory; cardiac;
 KM hypotensive; transgenic animal; ds.
 XX
 OS Rattus sp.
 XX
 PN WO200259270-A2.
 XX
 PD 01-AUG-2002.
 XX
 PF 24-JAN-2002; 2002WO-US002016.
 XX
 PR 24-JAN-2001; 2001US-0263811P.
 XX
 PA (OWEN/) OWENS G K.
 PA (MANA/) MANABE I.
 XX
 PI Owens GK, Manabe I;
 XX
 DR WPI; 2002-599772/64.
 XX
 PT New smooth muscle myosin heavy chain promoter/enhancers, useful for
 PT smooth muscle tissue-specific targeting and expression, or for genetic
 PT engineering as a means to investigate smooth muscle cell physiology and
 PT pathophysiology.
 XX
 PS Example 4; Page 56; 110pp; English.
 XX
 CC The present sequence is the Carg2 motif of the promoter/enhancer region
 CC of the rat smooth muscle myosin heavy chain (SM-MHC) gene (see also
 CC ABN84504). The present invention provides polynucleotide sequences which
 CC confer to an operably linked polynucleotide cell-specific expression
 CC within SM cells in vivo. These are derived from the rat or human SM-MHC
 CC gene. In some, the Carg2 or the intron Carg motif is mutated to confer
 CC subtype specificity. For example, the present sequence is preferably
 CC altered to the sequence given in ABN84507 by site-directed mutagenesis.
 CC The heterologous polynucleotide linked to the SM-MHC promoter preferably
 CC encodes a toxin, a prodrug-converting enzyme, a tumour suppressor, a
 CC sensitizing agent, an apoptotic factor, an angiogenesis inhibitor, a
 CC cytokine or an immunogenic antigen, or is an antisense polynucleotide or
 CC a catalytic polynucleotide. Expression vectors, e.g. retroviral, adeno-
 CC associated viral and adenoviral vectors, host cells and transgenic
 CC animals are provided. The SM-MHC promoter/enhancer provides for specific
 CC expression in SM cells of the bladder, gastrointestinal tract or urinary
 CC tract, aorta artery, carotid artery, pulmonary artery, vena cava vein or
 CC vascular SM. The compositions and methods for targeted gene delivery and
 CC expression are useful in treating diseases associated with abnormal
 CC function of SM cells, e.g. systemic hypertension, pulmonary hypertension,
 CC atherosclerosis, asthma, coronary artery disease, gastrointestinal
 CC abnormalities, reproductive dysfunction or chronic bronchitis
 XX
 SQ Sequence 10 BP; 0 A; 2 C; 3 G; 5 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1024 CCAAGAAGG 1033
 DB 10 CCAAAAAGG 1
 RESULT 96
 ACA60848/c

ACA60848 standard; DNA; 10 BP.
 XX
 AC ACA60848;
 XX
 DT 03-JUL-2003 (first entry)
 XX
 DE Rat smooth muscle myosin heavy chain wild-type Carg2 motif.
 XX
 KM Rat; ds; smooth muscle; myosin heavy chain; SM-MHC; Carg; hypotensive;
 KM antiatherosclerotic; antiaesthetic; antiinflammatory; promoter; enhancer;
 KM systemic hypertension; pulmonary hypertension; atherosclerosis; asthma;
 KM coronary artery disease; gastrointestinal abnormality; stem cell;
 KM reproductive dysfunction; chronic bronchitis; tissue regeneration.
 XX
 OS Rattus sp.
 XX
 PN US2003017549-A1.
 XX
 PD 23-JAN-2003.
 XX
 PF 24-JAN-2002; 2002US-00057726.
 XX
 PR 16-JAN-1998; 98US-0071300P.
 PR 15-JAN-1999; 99WO-US001038.
 PR 13-JUL-2000; 2000US-00600319.
 PR 24-JAN-2001; 2001US-0263811P.
 XX
 PA (OWEN/) OWENS G K.
 PA Owens GK, Manabe I;
 XX
 DR WPI; 2002-599772/64.
 XX
 PT New smooth muscle myosin heavy chain promoter/enhancers, useful for
 PT smooth muscle tissue-specific targeting and expression, or for genetic
 PT engineering as a means to investigate smooth muscle cell physiology and
 PT pathophysiology.
 XX
 PS Example 4; Page 23; 75pp; English.
 XX
 CC The invention relates to an isolated, synthetic, or recombinant
 CC polynucleotide comprising a smooth muscle myosin heavy chain (SM-MHC)
 CC promoter/enhancer sequence capable of conferring smooth muscle specific
 CC expression in vivo. Also included are expression vectors comprising the
 CC SM-MHC promoter/enhancers, a genetically engineered host cell comprising
 CC the vector, a transgenic non-human animal comprising the SM-MHC promoter/
 CC enhancer and screening a compound that modulates the activity of an SM-
 CC MHC promoter/enhancer. The SM-MHC promoter/enhancer is useful for
 CC expressing a polynucleotide (a reporter gene or polynucleotide encoding a
 CC therapeutic protein) in a smooth muscle cell in vivo. The smooth muscle
 CC cell is in a coronary artery, aorta, airway smooth muscle, or pulmonary
 CC vascular smooth muscle, or bladder smooth muscle, gastrointestinal tract
 CC smooth muscle, urinary tract smooth muscle, or gastrointestinal tract
 CC smooth muscle, or small branching artery smooth muscle. The SM-MHC
 CC smooth muscle, or small branching artery smooth muscle. The SM-MHC
 CC promoter/enhancer further comprises a minimal thymidine kinase (TK)
 CC promoter. The targeted delivery of the SM-MHC promoter/enhancer is useful
 CC for development of animal models of human disease to assist in
 CC development of new therapeutic targets or development of animals models
 CC for purpose of screening new drugs/therapies. The SM-MHC promoter/
 CC enhancer facilitates targeted gene delivery to express a gene of interest
 CC within an SMC. Targeted gene delivery and expression of the SM-MHC
 CC promoter/enhancer is useful for treating diseases associated with
 CC abnormal function of SMC including systemic hypertension, pulmonary
 CC hypertension, atherosclerosis, asthma, coronary artery disease,
 CC gastrointestinal abnormalities, reproductive dysfunction and chronic
 CC bronchitis. The SM-MHC promoter/enhancer and transformed cells are useful
 CC for identifying and selecting SMC derived from multi-potent stem cell
 CC populations for purposes of tissue generation/regeneration for surgery
 CC (e.g. for blood vessel, bladder, or gastrointestinal smooth muscle tissue
 CC augmentation-reconstruction). The SM-MHC genes contain Carg motifs in
 CC their promoter and first intron regions, these motifs are thought to be
 CC responsible for smooth muscle cell subtype specific expression of SM-MHC.

CC The present sequence is a rat SM-MHC wild-type CARG motif
XX Sequence 10 BP; 0 A; 2 C; 3 G; 5 T; 0 U; 0 Other;
SQ Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1024 CCCAAGAAGG 1033
DB 10 CCCAAAAAGG 1
RESULT 97
ABQ72900/c
ID ABQ72900 standard; DNA; 10 BP.
XX
AC ABQ72900;
DT 06-SEP-2002 (first entry)
XX
DE Human GRM8 gene polymorphism detection primer, SEQ ID NO:104.
XX
KM Human; glutamate receptor metabotropic 8; GRM8; receptor;
KM chromosome 7q31.3-32.1; neurotransmission; glutamate-mediated;
KM Smith-Lemli-Opitz syndrome; retinitis pigmentosa;
KM neuropathological disorder; neuroprotective; ophthalmological;
KM gene therapy; haplotyping; genotype; genetic variant;
KM single nucleotide polymorphism; SNP; drug screening; drug discovery;
KM primer extension; primer; ss.
XX
OS Homo sapiens.
XX
PN W0200238587-A2.
PD 16-MAY-2002.
PF 09-NOV-2001; 2001WO-US047325.
PR 09-NOV-2000; 2000US-0247576P.
PA (GENA-) GENAISSANCE PHARM INC.
PI Bieglecki KM, Chew A, Choi JY, Koshy B, Parks KE;
XX WPI; 2002-519291/55.
DR
XX Genetic variants of Glutamate Receptor, Metabotropic 8 isogenes, useful
PT for improving efficiency and reliability in drug development for treating
PT neuropathological conditions and retinitis pigmentosa.
XX
XX Claim 17, Page 15, 110pp; English.
XX
XX The invention relates to a method for haplotyping the glutamate receptor,
CC metabotropic 8 (GRM8) gene (ABQ72798, ABQ72905) of an individual, and
CC also describes 21 novel polymorphic sites within the human GRM8 gene. The
CC GRM8 gene is located on chromosome 7q31.3-32.1 and contains 10 exons
CC which encode a 908 amino acid protein (ABB09564). GRM8 is involved in
CC glutamate-mediated neurotransmission, being a member of a subfamily of
CC metabotropic glutamate receptors that inhibit the activity of adenylate
CC cyclase in response to glutamate stimulation. The chromosomal location of
CC the GRM8 gene encompasses regions linked to Smith-Lemli-Opitz syndrome
CC and a form of retinitis pigmentosa. GRM8 nucleic acid sequences are
CC useful in studying the expression and function of GRM8, and in expressing
CC GRM8 protein for use in screening drugs for the treatment of GRM8-
CC associated diseases (e.g., neuropathological disorders, Smith-Lemli-Opitz
CC syndrome and retinitis pigmentosa). GRM8 nucleic acids and proteins are
CC also useful in studying the effect of polymorphisms on the biological
CC activity of GRM8. Polymorphisms in the target region may be determined by
CC the use of allele-specific oligonucleotides (ASOs; ABQ72800-ABQ72862) as
CC probes and primers, and by primer extension using oligonucleotide primers
CC comprising sequences ABQ72863-ABQ72904. The method of the invention is
CC useful for haplotyping the GRM8 gene in populations and in individuals,

CC enabling decisions to be made as to whether GRM8 is a likely therapeutic
CC target for a disease of interest, and in the design of clinical trials of
CC candidate drugs for treating GRM8-associated disorders. In addition,
CC transgenic animals comprising a human GRM8 gene are useful for studying
CC the expression of GRM8 isogenes in vivo, for in vivo screening and
CC testing of drugs targeted to GRM8, and for testing the efficacy of
CC therapeutic agents and compounds for treating GRM8-associated conditions
CC in a biological system. Sequences ABQ72863-ABQ72904 represent sequences
CC that are specifically claimed as components of primers used to detect
CC polymorphisms in the GRM8 gene by primer extension
XX
XX Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;
SQ Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1018 CTTCTGACCA 1027
DB 10 CTTCTGACCA 1
RESULT 98
ABK96537/c
ID ABK96537 standard; DNA; 10 BP.
XX
AC ABK96537;
DT 24-SEP-2002 (first entry)
XX
DE Human PLAU gene, primer extension primer 3' terminus #10.
XX
KM Human; ss; primer: Plasminogen activator; urokinase; PLAU; cancer;
KM cytostatic; serine protease; thrombolytic disorder; isogene; PCR;
KM pulmonary embolism; chromosome 10q24-qter; haplotype; genotype; SNP;
KM single nucleotide polymorphism; thrombolytic; gene therapy;
KM primer extension.
XX
OS Homo sapiens.
XX
PN W0200240503-A2.
PD 23-MAY-2002.
PF 14-NOV-2001; 2001WO-US044001.
PR 17-NOV-2000; 2000US-0249703P.
PA (GENA-) GENAISSANCE PHARM INC.
PI Anastasio AE, Bentivegna SC, Koshy B;
XX WPI; 2002-519370/55.
DR
XX Genetic variants of Plasminogen activator, Urokinase (PLAU) isogenes,
PT useful for improving efficiency and reliability in drug development for
PT treating thrombolytic disorders and cancer.
XX
XX Claim 16, Page 14, 92pp; English.
XX
XX The invention relates to a polynucleotide comprising a first nucleotide
CC sequence (NS1) comprising a PLAU (plasminogen activator, urokinase, a
CC serine protease) isogene selected from isogenes 1-9 and 11-20 given in
CC the specification, where each isogene comprises the regions of the PLAU
CC gene or cDNA and is further defined by the corresponding sequence of
CC polymorphisms (defining single nucleotide polymorphisms, SNP). Also
CC included are methods of haplotyping/genotyping (and predicting the
CC haplotype/genotype of the PLAU gene of an individual, identifying an
CC association between a trait and at least one haplotype or haplotype pair
CC of the PLAU gene, an isolated oligonucleotide for detecting a
CC polymorphism in the PLAU gene, a recombinant non-human organism
CC transformed or transfected with the gene or cDNA, fragments of the
CC polynucleotides of at least 10 base pairs encompassing a polymorphic

CC site, an isolated polymorphic variant PLAU protein or fragment, an
CC isolated monoclonal antibody specific for PLAU, a computer system for
CC scoring and analysing polymorphism data for the PLAU gene and a genome
CC anthology for the PLAU gene. PLAU is useful in screening for drugs
CC targeting PLAU that are useful for treating thrombolytic disorders and
CC cancers. The methods are useful for improving the efficiency and
CC reliability of the discovery and development of drugs for treating
CC diseases associated with PLAU activity, in validating PLAU as a drug
CC target and in the design of clinical trials for treating a specific
CC condition of disease associated with PLAU activity. The antibody is
CC useful in diagnostic, prognostic and therapeutic methods. PLAU
CC polynucleotides are useful in studying the expression and function of
CC PLAU, and in expressing PLAU protein for use in screening for candidate
CC drugs to treat diseases related to PLAU activity. The gene for PLAU is
CC located on chromosome 10q24-qter. The present sequence is the 3' terminus
CC of an allele specific primer used to amplify PLAU polynucleotides with a
CC specific polymorphism using the technique of primer extension

XX
SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1022 TGCCCAAGAA 1031
|||
10 TGCCCAAGCA 1

RESULT 99
ACF04526
ID ACF04526 standard; DNA; 10 BP.

XX ACF04526;
XX
XX 04-DEC-2003 (first entry)

DE Stuffer sequence used in NA detection by mass spectrometry #9.

XX Mass spectrometry; nucleic acid sequence detection; stuffer sequence; ds.

XX Synthetic.

PN WO2003060163-A2.

XX
XX 24-JUL-2003.

PF 30-DEC-2002; 2002WO-NL000672.

XX
XX 28-DEC-2001; 2001EP-00205114.

PA (KEYG-) KEYGENE NV.

PI Van Eijk MJT, Van Schaik C;

XX
XX WPI; 2003-598543/56.

PT Determining the presence or absence of target sequences in nucleic acid
samples, useful for e.g. genetic mapping or DNA fingerprinting, comprises
PT employing an oligonucleotide ligation assay in combination with mass
PT spectrometry.

XX
XX Example 3; Page 27; 68pp; English.

CC The present invention relates to a method of determining the presence or
CC absence of at least one target sequence in a nucleic acid sample, which
CC comprises employing an oligonucleotide ligation assay in combination with
CC a detection method based upon molecular mass, preferably mass
CC spectrometry. The method is useful for high-throughput detection of a
CC multiplicity of target nucleotide sequences, for detecting polymorphisms
CC (preferably single nucleotide polymorphism), for transcript profiling,
CC for detecting quantitative abundance of target nucleic acid sequences,
CC for genetic mapping, gene discovery, marker-assisted selection, seed

CC quality control, hybrid selection, QTL mapping, bulked segregant
CC analysis, DNA fingerprinting and for disclosing information relating to
CC traits, disease resistance, yield, hybrid vigor, and/or gene function.
CC The set of oligonucleotide probes, which comprises a probe for each
CC allele of a single nucleotide polymorphism, is useful for determining the
CC presence or absence of at least one target sequence in a nucleic acid
CC sample. The present sequence is a stuffer sequence used in the
CC exemplification of the invention

XX
SQ Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAAGTGGG 1037
|||
1 AGAAGGTGGG 10

RESULT 100
AD113685
ID AD113685 standard; DNA; 10 BP.

XX AD113685;
XX
XX 22-APR-2004 (first entry)

DE Cytoplaasmic tumour endothelial marker standard tag SEQ ID NO:60.

XX tumour endothelial marker; TEM; endothelial cell regulation;

KW neoangiogenesis inhibition; neoangiogenesis screening;

KW neoangiogenesis promotion; neoangiogenesis; tumour; wound healing;

KW cytoelastic; vulnery; human; standard tag; ss.

OS Homo sapiens.

XX Synthetic.

PN WO2004005883-A2.

XX
XX 15-JAN-2004.

PF 02-JUL-2003; 2003WO-US016250.

XX
XX 02-JUL-2002; 2002US-0393023P.

XX
XX 01-APR-2003; 2003US-0458964P.

PA (UYJO) UNIV JOHNS HOPKINS.

PI St Croix B, Kinzler KM, Vogelstein B;

XX
XX WPI; 2004-142995/14.

PT Use of tumor endothelial marker proteins for inhibiting neoangiogenesis,

PT screening for neoangiogenesis, promoting neoangiogenesis, identifying

PT candidate drugs for treating tumors or promoting wound healing.

XX
XX Disclosure; SEQ ID NO 60; 113pp; English.

CC The present invention describes the use of tumour endothelial marker
CC (TEM) proteins for identifying a ligand involved in endothelial cell
CC regulation, inhibiting neoangiogenesis, screening for neoangiogenesis,
CC promoting neoangiogenesis, identifying candidate drugs for treating
CC tumours or promoting wound healing or identifying endothelial cells. Also
CC described: (1) identification of a ligand involved in endothelial cell
CC regulation; (2) inhibiting neoangiogenesis; (3) promoting neoangiogenesis
CC in a patient; (4) screening for neoangiogenesis in a patient; (5)
CC identify candidate drugs for treating tumours or promoting wound healing;
CC and (6) identifying endothelial cells. TEM proteins have cytostatic and
CC lymphatic activities. The TEM proteins are useful for identifying a
CC ligand involved in endothelial cell regulation, inhibiting
CC neoangiogenesis, screening for neoangiogenesis, promoting
CC neoangiogenesis, identifying candidate drugs for treating tumours or

CC promoting wound healing or identifying endothelial cells. The present
CC sequence represents a cytoplasmic tumour endothelial marker standard tag
CC oligonucleotide, which is used in the exemplification of the present
CC invention.

XX Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 1 AGAGGTGGG 10

RESULT 101

ADM69071
ID ADM69071 standard; DNA; 10 BP.

XX AC ADM69071;

XX DT 03-JUN-2004 (first entry)

XX DE Human TAT protein-related tag ASCL2 oligonucleotide seqID7.

XX KW achaete-scute like-2; tumour-associated antigenic target polypeptide;

XX KW TAT376; TAT377; TAT cytosolic; gene therapy;

XX KW cell proliferative disorder; tumour; cancer; prostate cancer;

XX KW lung cancer; breast cancer; colon cancer; ovarian cancer;

XX KW chromosome mapping; gene mapping; tissue typing; ASC-2; ss; human.

XX OS Homo sapiens.

XX PN WO2004019857-A2.

XX PD 11-MAR-2004.

XX PF 04-JUN-2003; 2003WO-US017682.

XX PR 29-AUG-2002; 2002US-0407087P.

XX PA (GETH) GENENTECH INC.

XX PI Baldwin D, Clark H, Jubb A, Koeppe H, Quan C, Wu TD, Zhang Z;

XX DR WPI; 2004-239106/22.

XX PT New TAT376 and TAT377 nucleic acid, useful for preparing a medicament for
XX treating or diagnosing a cell proliferative disorder, tumor or cancer,
XX e.g. prostate, lung, breast, colon or ovarian cancer.

XX PS Example 2; SEQ ID NO 7; 159pp; English.

XX CC This invention relates to novel isolated nucleic acids and their encoded
XX achaete-scute like-2 polypeptides. In particular, the invention relates
XX to tumour-associated antigenic target polypeptides (TAP) 376 and 377 and
XX the DNA sequences which encode them. The invention may be useful for the
XX development of compounds with a cytostatic activity or for gene therapy.
XX TAT376 or TAT377 nucleic acids, polypeptides, antibodies or oligopeptides
XX are useful for preparing a medicament for treating or diagnosing a cell
XX proliferative disorder, tumour or cancer (for example prostate, lung,
XX breast, colon or ovarian cancer). The nucleic acids may be used as
XX hybridisation probes for a cDNA library to isolate the full length TAT376
XX or TAT377 cDNA, in chromosome or gene mapping, in gene therapy, and in
XX tissue typing. The present sequence is that of an oligonucleotide which
XX was used in the exemplification of the invention.

XX SQ Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCACAGA 1030
Db 1 CTGCCACAGA 10

RESULT 102

ADM33249/c
ID ADM33249 standard; DNA; 10 BP.

XX AC ADM33249;

XX DT 17-JUN-2004 (first entry)

XX DE Oligo SEQ ID 84, used in method for estimating melting temperature.

XX KW Melting temperature; probe design; primer design; ss.

XX OS Synthetic.

XX PN WO2004025257-A2.

XX PD 25-MAR-2004.

XX PF 12-SEP-2003; 2003WO-US028664.

XX PR 12-SEP-2002; 2002US-0410663P.

XX PA (INTE-) INTEGRATED DNA TECHNOLOGIES INC.

XX PI Owczarzy R, Walder JA, Huang L, Behlke MA;

XX DR WPI; 2004-340203/31.

XX PT Estimating melting temperature, for designing or selecting
XX oligonucleotide probes or primers, comprises modifying the reference
XX melting temperature by a logarithm of the ratio of the desired ion to the
XX reference ion concentrations.

XX PS Example 1; Page 41; 66pp; English.

XX CC The present invention relates to a method for estimating a melting
XX temperature (Tm) for a polynucleotide at a desired ion concentration
XX having a known G-C content value. The method is useful designing and
XX selecting oligonucleotide probes and primers. The present sequence was
XX used to illustrate the method of the invention.

XX SQ Sequence 10 BP; 2 A; 4 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAAGTGG 1036
Db 10 AAGAAGTGG 1

RESULT 103

AAA16595
ID AAA16595 standard; DNA; 11 BP.

XX AC AAA16595;

XX DT 16-JUN-2000 (first entry)

XX DE Human MN gene 5' donor consensus splice sequence SEQ ID NO:73.

XX KW Human; MN protein; MN gene; oncogene; carbonic anhydrase; tumour;
XX oncogenesis; diagnosis; neoplastic disease; cancer; carcinoma;
XX MN/CA IX isoenzyme; ds.

XX OS Homo sapiens.

```

XX  US6027887-A.
XX
XX  22-FEB-2000.
XX
XX  24-JAN-1997; 97US-00787739.
XX
XX  21-OCT-1992; 92US-00964589.
XX  30-DEC-1993; 93US-00177093.
XX  15-JUN-1994; 94US-00260190.
XX  07-JUN-1995; 95US-00477504.
XX  07-JUN-1995; 95US-00481658.
XX  07-JUN-1995; 95US-00485049.
XX  07-JUN-1995; 95US-00485862.
XX  07-JUN-1995; 95US-00485863.
XX  07-JUN-1995; 95US-00486756.
XX  07-JUN-1995; 95US-00487077.
XX
XX  (SLSC-) SLOVAK ACAD SCI INST VIROLOGY.
XX
XX  Pastorek J, Zavada J, Pastorekova S;
XX  WPI; 2000-194827/17.
XX
XX  Nucleic acid based assay for diagnosing a wide variety of
XX  preneoplastic/neoplastic disease comprises screening for the presence of
XX  abnormal MN gene expression in a vertebrate.
XX
XX  Disclosure; Col 16; 87pp; English.
XX
XX  The present invention describes a method of screening for
XX  preneoplastic/neoplastic disease. The method comprises: (1) determining
XX  whether abnormal MN gene expression is present in a vertebrate; and (2)
XX  if abnormal MN gene expression is determined to be present in the
XX  vertebrate, determining that the vertebrate has a significant risk of
XX  having preneoplastic/neoplastic disease. The MN gene is an oncogene and
XX  encodes an MN protein (also referred to as MN/CA IX isoenzyme). The MN
XX  protein is a tumour associated carbonic anhydrase isoenzyme. The method
XX  is used for detecting a wide variety of preneoplastic/neoplastic diseases
XX  in a vertebrate, preferably a human. The disease detected is mammary,
XX  bladder, renal, urinary tract, ovarian, uterine, cervical, endometrial,
XX  testicular, vulval, prostate, liver, lung, skin, thyroid, pancreatic,
XX  duodenal, jejunal, ileal, gastric, pancreatic duct, liver duct, gastric
XX  mucosa, gallbladder epithelium, small intestinal mucosa, colorectal
XX  mucosa, pancreatic duct epithelium or liver duct epithelium
XX  preneoplastic/neoplastic disease. AAL6540 to AAL6617 and AAY53228 to
XX  AAY53245 represent sequences used in the exemplification of the present
XX  invention.
XX
XX  Sequence 11 BP, 2 A; 2 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX  Query Match 42.0%; Score 8.4; DB 1; Length 11;
XX  Best Local Similarity 90.0%; Pred. No. 58;
XX  Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX  1028 AGAAGTGGG 1037
XX  |||||||
XX  1 AGCAGTGGG 10
XX
XX  RESULT 104
XX  ID AAL52514 standard; DNA; 11 BP.
XX  AC AAL52514;
XX
XX  25-SEP-2000 (first entry)
XX
XX  Human MN gene intron 7 splice donor sequence.
XX
XX  MN protein; tumour associated cell adhesion molecule; oncoprotein;
XX  proteoglycan domain; PG domain; carbonic anhydrase; CA domain;

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XX  abnormal expression; neoplastic disease; cancer; gene therapy; de.
XX
XX  Homo sapiens.
XX
XX  WO200024913-A2.
XX
XX  04-MAY-2000.
XX
XX  22-OCT-1999; 99MO-US024879.
XX
XX  23-OCT-1998; 98US-00177776.
XX  23-OCT-1998; 98US-00178115.
XX
XX  (PARB) BAYER CORP.
XX  (VITRO-) INST VIROLOGY.
XX
XX  Zavada J, Pastorekova S, Pastorek J;
XX  WPI; 2000-350752/30.
XX
XX  A molecule which specifically binds to a site on MN protein (oncoprotein)
XX  and prevents adhesion of vertebrate cells to the protein, useful for
XX  treating preneoplastic or neoplastic diseases such as cancer.
XX
XX  Disclosure; Page 26; 154pp; English.
XX
XX  The invention relates to the inhibition of cell adhesion mediated by the
XX  MN oncoprotein (also known as the MN/CA IX isoenzyme or the MN/G250
XX  protein). The MN protein is a tumour-associated adhesion molecule which
XX  comprises a proteoglycan-like (PG) domain (AAB03017) which contains the
XX  protein's binding site, and a carbonic anhydrase (CA) domain (AAB03018).
XX  Abnormal expression of the MN protein is associated with tumorigenicity.
XX  The invention encompasses molecules (e.g., proteins and peptides) which
XX  which specifically bind to a site on the MN protein, thereby preventing
XX  adhesion of vertebrate cells to the protein in a cell adhesion assay. It
XX  also encompasses MN proteins or MN protein fragments which can be added
XX  to the extracellular environment to prevent the adhesion of vertebrate
XX  cells to each other. The invention also relates to the identification of
XX  the binding site of the MN protein and to a method of identifying a site
XX  on an MN protein to which cells adhere, comprising testing a series of
XX  overlapping peptides from the protein in a cell adhesion assay. The
XX  invention encompasses a vector comprising an expression control sequence
XX  operatively linked to a nucleic acid encoding the variable domains of a
XX  MN-specific antibody, where the domains are separated by a flexible
XX  linker peptide (AAB03035) and the vector inhibits the growth of a
XX  vertebrate preneoplastic or neoplastic cell that abnormally expresses MN
XX  protein. The invention also encompasses a vector comprising a nucleic
XX  acid encoding a cytotoxic protein or peptide operatively linked to the MN
XX  gene promoter, which inhibits the growth of a vertebrate preneoplastic or
XX  neoplastic cell. Also claimed is a repressor complex that binds to the MN
XX  gene promoter (AAL52473). MN proteins and peptides, MN-binding proteins
XX  and peptides, and expression vectors encoding such proteins and peptides
XX  are useful for treating patients with preneoplastic or neoplastic disease
XX  (e.g., cancers) associated with or characterised by abnormal MN
XX  expression. The present sequence represents a fragment of the human MN
XX  gene (AAL52462) specified in the invention
XX
XX  Sequence 11 BP, 2 A; 2 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX  Query Match 42.0%; Score 8.4; DB 1; Length 11;
XX  Best Local Similarity 90.0%; Pred. No. 58;
XX  Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX  1028 AGAAGTGGG 1037
XX  |||||||
XX  1 AGCAGTGGG 10
XX
XX  RESULT 105
XX  ID ABO87504/c standard; cDNA; 11 BP.
XX  AC ABO87504;

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XX 10-SEP-2002 (first entry)
XX
XX Human skin stress/ageing related EST SEQ ID NO 1259.
XX
XX Human, skin ageing; skin stress; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253773-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015178.
XX
XX 03-JAN-2001; 2001DE-01000121.
XX
XX (HENKEL ) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-528865/56.
XX
XX Identifying genes involved in skin stress and aging, useful e.g. in
XX screening for cosmetic or therapeutic agents, based on differential gene
XX expression.
XX
XX Claim 8; Page 89; 325pp; German.
XX
XX The invention relates to identifying (M1) genes in vitro that, in humans
XX or animals, are important for skin ageing and/or skin stress by serial
XX analysis of gene expression between mixtures of transcribed and
XX optionally translated, genetically encoded factors (A) obtained from
XX young and aged skin, to identify that genes that show strong differential
XX expression. (A) comprises protein or mRNAs or their fragments. (M1) is
XX useful for: identifying markers of skin ageing and/or stress; determining
XX skin ageing and/or stress; and identifying or determining the effects of
XX pharmaceutical or cosmetic agents for control of skin ageing. The present
XX sequence is one of a group of human skin ageing/stress related expressed
XX sequence tags (ABQ86246-ABQ87680) of the invention
XX
XX Sequence 11 BP; 2 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 42.0%; Score 8.4; DB 1; Length 11;
XX Best Local Similarity 90.0%; Pred. No. 58;
XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1026 CAAAGAGGTG 1035
XX ||| |||||
XX Db 11 CAATAGGTG 2
XX
XX RESULT 106
XX ABQ87500/c
XX ID ABQ87500 standard; cDNA; 11 BP.
XX
XX AC ABQ87500;
XX
XX 10-SEP-2002 (first entry)
XX
XX Human skin stress/ageing related EST SEQ ID NO 1255.
XX
XX Human, skin ageing; skin stress; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253773-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015178.
XX
XX 03-JAN-2001; 2001DE-01000121.
XX
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XX (HENKEL ) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-528865/56.
XX
XX Identifying genes involved in skin stress and aging, useful e.g. in
XX screening for cosmetic or therapeutic agents, based on differential gene
XX expression.
XX
XX Claim 8; Page 89; 325pp; German.
XX
XX The invention relates to identifying (M1) genes in vitro that, in humans
XX or animals, are important for skin ageing and/or skin stress by serial
XX analysis of gene expression between mixtures of transcribed and
XX optionally translated, genetically encoded factors (A) obtained from
XX young and aged skin, to identify that genes that show strong differential
XX expression. (A) comprises protein or mRNAs or their fragments. (M1) is
XX useful for: identifying markers of skin ageing and/or stress; determining
XX skin ageing and/or stress; and identifying or determining the effects of
XX pharmaceutical or cosmetic agents for control of skin ageing. The present
XX sequence is one of a group of human skin ageing/stress related expressed
XX sequence tags (ABQ86246-ABQ87680) of the invention
XX
XX Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 42.0%; Score 8.4; DB 1; Length 11;
XX Best Local Similarity 90.0%; Pred. No. 58;
XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1026 CAAAGAGGTG 1035
XX ||| |||||
XX Db 11 CCAAGAGGTG 2
XX
XX RESULT 107
XX ABQ86415
XX ID ABQ86415 standard; cDNA; 11 BP.
XX
XX AC ABQ86415;
XX
XX 10-SEP-2002 (first entry)
XX
XX Human skin stress/ageing related EST SEQ ID NO 170.
XX
XX Human, skin ageing; skin stress; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253773-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015178.
XX
XX 03-JAN-2001; 2001DE-01000121.
XX
XX (HENKEL ) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-528865/56.
XX
XX Identifying genes involved in skin stress and aging, useful e.g. in
XX screening for cosmetic or therapeutic agents, based on differential gene
XX expression.
XX
XX Claim 8; Page 44; 325pp; German.
XX
XX The invention relates to identifying (M1) genes in vitro that, in humans
XX or animals, are important for skin ageing and/or skin stress by serial
XX analysis of gene expression between mixtures of transcribed and
```

CC optionally translated, genetically encoded factors (A) obtained from
 CC young and aged skin, to identify that genes that show strong differential
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
 CC useful for: identifying markers of skin ageing and/or stress; determining
 CC skin ageing and/or stress; and identifying or determining the effects of
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present
 CC sequence is one of a group of human skin ageing/stress related expressed
 CC sequence tags (ABQ86246-ABQ87680) of the invention
 XX
 SO Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Oy 1027 AAGAGGTGG 1036
 |||||
 2 AAGAGGTGG 11
 Db
 RESULT 108
 ABV66344
 ID ABV66344 standard; cDNA; 11 BP.
 AC
 XX ABV66344;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 4130.
 XX
 KW Human; skin; dermatological; vulnery; antipsoptic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cyostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENKEL) HENKEL KGAA.
 PI Petersohn D, Conradt M, Hofmann K;
 XX
 XX WPI; 2002-590638/63.
 DR
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 PT
 XX
 PS Disclosure; Page 139; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 SO Sequence 11 BP; 5 A; 3 C; 1 G; 2 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Oy 1022 TGCCCAAGAA 1031
 |||||
 2 TGCCCAAGAA 11
 Db
 RESULT 109
 ABV62764
 ID ABV62764 standard; cDNA; 11 BP.
 AC
 XX ABV62764;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 550.
 XX
 KW Human; skin; dermatological; vulnery; antipsoptic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cyostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENKEL) HENKEL KGAA.
 PI Petersohn D, Conradt M, Hofmann K;
 XX
 XX WPI; 2002-590638/63.
 DR
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 PT
 XX
 PS Disclosure; Page 40; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 SO Sequence 11 BP; 4 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Oy 1027 AAGAGGTGG 1036
 |||||
 1 AAGAGGTGG 10
 Db
 RESULT 110
 ABV70185
 ID ABV70185 standard; cDNA; 11 BP.
 AC
 XX ABV70185;
 XX

DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 7971.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Claim 24; Page 254; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 4 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1027 AAGAGGTGG 1036
DB 1 AAGAGGTGG 10
XX
RESULT 111
ABV62651/c
ID ABV62651 standard; cDNA; 11 BP.
XX
AC ABV62651;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 437.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
PD 11-JUL-2002.
XX

XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 37; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 0 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1028 AAGAGGTGG 1037
DB 11 AAGAGGTGG 2
XX
RESULT 112
ABV67006
ID ABV67006 standard; cDNA; 11 BP.
XX
AC ABV67006;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 4792.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against

PT e.g. skin cancer.
XX
PS Disclosure; Page 157; 1345bp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAAAGTGG 1036
|||
Db 2 AAGAAAGTGG 11
RESULT 113
ABV67047/C
ID ABV67047 standard; cDNA; 11 BP.
XX
AC ABV67047;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 4833.
XX
KW Human, skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PS (HENKEL) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 158; 1345bp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1026 CAAGAAGTGG 1035
|||
Db 11 CAAGAAGTGG 2
RESULT 114
ABV64836
ID ABV64836 standard; cDNA; 11 BP.
XX
AC ABV64836;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 2622.
XX
KW Human, skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PS (HENKEL) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 98; 1345bp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAAAGTGG 1036
|||
Db 1 AAGAAAGTGG 10

RESULT 115

ABV67092/c
ID ABV67092 standard; cDNA; 11 BP.

XX AC ABV67092;

XX DT 21-OCT-2002 (first entry)

XX DE Human skin EST 4878.

XX KM Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhoeic;
XX KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX OS Homo sapiens.

XX PN W0200253774-A2.

XX PD 11-JUL-2002.

XX PF 20-DEC-2001; 2001WO-EP015179.

XX PR 03-JAN-2001; 2001DE-01000127.

XX PA (HENK) HENKEL KGAA.

XX PI Petersohn D, Conradt M, Hofmann K;

XX DR WPI; 2002-590638/63.

XX PT In vitro identification of skin-expressed genes, useful for determining
XX PT homeostasis and identifying cosmetic or pharmaceutical agents against
XX PT e.g. skin cancer.

XX PS Disclosure; Page 159; 1345pp; German.

XX CC The invention relates to in vitro identification (M1) of genes expressed
XX CC in the skin of humans or animals by subjecting a mixture of genetically
XX CC encoded factors from skin, to serial analysis of gene expression (SAGE)
XX CC so as to identify skin-expressed genes and quantify their expression.
XX CC (M1) is useful for identifying genes involved in skin homeostasis; to
XX CC determine skin homeostasis and to test agent (A) that maintains or
XX CC promotes skin homeostasis or that can be used for treating skin
XX CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX CC skin. The present sequence is that of a human expressed sequence tag
XX CC (EST) of the invention

XX SQ Sequence 11 BP; 1 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;

Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAAGGTGG 1036

DB 10 AAGCAGGTGG 1

RESULT 116

ABV67518/c
ID ABV67518 standard; cDNA; 11 BP.

XX AC ABV67518;

XX DT 21-OCT-2002 (first entry)

XX DE Human skin EST 5304.

XX KM Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhoeic;

XX KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX OS Homo sapiens.

XX PN W0200253774-A2.

XX PD 11-JUL-2002.

XX PF 20-DEC-2001; 2001WO-EP015179.

XX PR 03-JAN-2001; 2001DE-01000127.

XX PA (HENK) HENKEL KGAA.

XX PI Petersohn D, Conradt M, Hofmann K;

XX DR WPI; 2002-590638/63.

XX PT In vitro identification of skin-expressed genes, useful for determining
XX PT homeostasis and identifying cosmetic or pharmaceutical agents against
XX PT e.g. skin cancer.

XX PS Disclosure; Page 171; 1345pp; German.

XX CC The invention relates to in vitro identification (M1) of genes expressed
XX CC in the skin of humans or animals by subjecting a mixture of genetically
XX CC encoded factors from skin, to serial analysis of gene expression (SAGE)
XX CC so as to identify skin-expressed genes and quantify their expression.
XX CC (M1) is useful for identifying genes involved in skin homeostasis; to
XX CC determine skin homeostasis and to test agent (A) that maintains or
XX CC promotes skin homeostasis or that can be used for treating skin
XX CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX CC skin. The present sequence is that of a human expressed sequence tag
XX CC (EST) of the invention

XX SQ Sequence 11 BP; 3 A; 0 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;

Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1019 TTCTGCCCAA 1028

DB 11 TTCTACCCAA 2

RESULT 117

ABV72108/c
ID ABV72108 standard; cDNA; 11 BP.

XX AC ABV72108;

XX DT 21-OCT-2002 (first entry)

XX DE Human skin EST 9894.

XX KM Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhoeic;
XX KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX OS Homo sapiens.

XX PN W0200253774-A2.

XX PD 11-JUL-2002.

XX PF 20-DEC-2001; 2001WO-EP015179.

XX PR 03-JAN-2001; 2001DE-01000127.

PA (HENK) HENKEL KGAA.
PI Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Claim 24; Page 323; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 2 A; 4 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1020 TGTGCCCAAG 1029
DB 11 TGTGCCCAAG 2
|||||
|
RESULT 118
ABV62632
ID ABV62632 standard; cDNA; 11 BP.
XX
AC ABV62632;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 418.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrhoeic;
KM immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 37; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed

CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAAGTG 1035
DB 2 CAAGAAAGTG 11
|||||
|
RESULT 119
ABV65381
ID ABV65381 standard; cDNA; 11 BP.
XX
AC ABV65381;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 3167.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrhoeic;
KM immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 113; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 3 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

PN WO200253774-A2.
XX 11-JUL-2002.
PD 20-DEC-2001; 2001WO-EP015179.
XX 03-JAN-2001; 2001DE-01000127.
PR (HENK) HENKEL KGAA.
XX Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-590638/63.
DR
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 111; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC Ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 2 A; 5 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAAGTGGG 1037
Db 11 AGAAGTGGG 2

RESULT 123
ABV70072/C
ID ABV70072 standard; cDNA; 11 BP.
XX
XX ABV70072;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 7858.
DE
XX Human; skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENK) HENKEL KGAA.
XX Petersohn D, Conradt M, Hofmann K;
PI
XX WPI; 2002-590638/63.
DR

XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Claim 24; Page 250; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC Ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 0 A; 6 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAAGTGGG 1037
Db 11 AGAAGTGGG 2

RESULT 124
ABV69202
ID ABV69202 standard; cDNA; 11 BP.
XX
XX ABV69202;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 6988.
DE
XX Human; skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENK) HENKEL KGAA.
XX Petersohn D, Conradt M, Hofmann K;
PI
XX WPI; 2002-590638/63.
DR
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 219; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or

CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; the
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

Sequence 11 BP; 6 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1023 GCCCAGAGAG 1032
 Db 1 GCACAGAGAG 10

RESULT 125
 ABV70053
 ID ABV70053 standard; cDNA; 11 BP.
 AC ABV70053;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 7839.
 XX
 KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN W0200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Peterohn D, Conradt M, Hofmann K;
 XX
 DR WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Claim 24; Page 250; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAGAGAGTG 1035
 Db 2 CAGAGAGTG 11

RESULT 126
 ADG88256/c
 ID ADG88256 standard; DNA; 11 BP.
 XX
 AC ADG88256;
 XX
 DT 22-APR-2004 (first entry)
 XX
 DE A. thaliana pathogen infection-related gene motif 2 cis element #698.
 XX
 KW Pathogen infection-related gene; plant; Peronospora parasitica;
 KW defence mechanism; pathogen resistance; transgenic plant; oomycete;
 KW fungus; bacterium; virus; nematode; insect; aphid; promoter; cis element;
 KW motif 2; ds.
 XX
 OS Arabidopsis thaliana.
 XX
 PN W0200222675-A2.
 XX
 PD 21-MAR-2002.
 XX
 PF 14-SEP-2001; 2001WO-US028506.
 XX
 PR 15-SEP-2000; 2000US-0232778P.
 PR 22-JUN-2001; 2001US-0300183P.
 XX
 PA (SYGN) SYNGENTA PARTICIPATIONS AG.
 PA (UNNC-) UNIV NORTH CAROLINA.
 PA (GLAZ/) GLAZEBROOK J.
 PA (WANG/) WANG X.
 PA (DANG/) DANG J L.
 PA (EULG/) EULGEM T.
 PA (ZHU/) ZHU T.
 XX
 PI Glazebrook J, Wang X, Dang J, Eulgem T, Zhu T;
 XX
 DR WPI; 2002-292409/33.
 XX
 PT Novel isolated polynucleotide, useful for conveying pathogen resistance
 PT to plants, and for identifying plants infected with a pathogen.
 XX
 PS Claim 44; SEQ ID NO 698; 605pp; English.
 XX
 CC The invention relates to 691 Arabidopsis thaliana genes (ADG87559--
 CC ADG87557) whose expression is altered in response to pathogen infection,
 CC and to homologues of these genes from other plants or fungi, especially
 CC from maize, soybean, barley, alfalfa, sunflower, canola (oilseed rape),
 CC cotton, peanut, sorghum, tobacco, sugarbeet, rice or wheat. The
 CC expression of genes of the invention was upregulated or downregulated in
 CC Arabidopsis plants infected with the oomycete Peronospora parasitica,
 CC indicating that they play a role in defence mechanisms. The genes of the
 CC invention are regulated by RPP7 or RPP8 which act via unconventional
 CC signalling cascades, or by the RPP4-dependent pathway. The invention also
 CC relates to polypeptides encoded by the pathogen infection-related genes;
 CC promoter motifs from pathogen infection-related genes (ADG88243-ADG88327)
 CC ; expression cassettes, host cells and pathogen-resistant transgenic
 CC plants and their progeny comprising a polynucleotide of the invention;
 CC and a method of identifying a plant cell infected with a pathogen. The
 CC polynucleotide sequences and methods of the invention are useful for
 CC identifying plants infected with a pathogen, and for conferring
 CC resistance to pathogens such as oomycetes, fungi, bacteria, viruses,
 CC nematodes and insects (e.g., aphids). The present sequence represents a
 CC cis element from the promoter of Arabidopsis thaliana gene whose
 CC expression is altered in response to Peronospora parasitica infection.
 CC Note: The sequence data for this patent can also be obtained in
 CC electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX

SQL Sequence 11 BP; 4 A; 1 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1019 TTCTGCCCAA 1028
11 TTTTCCCCA 2
Db 11 TTTTCCCCA 2
RESULT 127
ADK41823
ID ADK41823 standard; DNA; 11 BP.
AC ADK41823;
XX 06-MAY-2004 (first entry)
XX Human MN gene intron-exon boundary sequence Seq1052.
DE
XX carbonic anhydrase IX; CA IX; precancerous cell; MN; cancerous cell;
KM human; vertebrate; cytostatic; vaccine; gene therapy;
KM renal cell carcinoma; breast cancer; colorectal cancer; splice acceptor;
KM ds.
XX Homo sapiens.
XX WO2004005348-A1.
XX 15-JAN-2004.
XX 22-FEB-2003; 2003WO-US005137.
XX 23-MAY-2002; 2002US-0383068P.
XX 05-DEC-2002; 2002US-0431499P.
XX (PARB) BAYER CORP.
XX (VIR-) INST VIROLOGY.
XX Zavadova J, Pastorekova S, Pastorek J, Zavadova Z;
XX WPI; 2004-083500/08.
XX New soluble form of the carbonic anhydrase IX (CA IX) protein for
PT screening, diagnosing or prognosing diseases associated with abnormal
PT expression of CA IX protein, e.g. renal cell carcinoma, breast cancer or
PT colorectal cancer.
XX Disclosure; SEQ ID NO 52; 159pp; English.
XX This invention relates to a novel soluble form of the carbonic anhydrase
XX IX (CA IX) (or MN) protein or CA IX polypeptide which is released from
CC precancerous and/or cancerous cells of a vertebrate into a body fluid.
CC The invention may be useful for the development of compounds with a
CC cytosolic activity or a vaccine whilst the disclosed sequences may be
CC used for gene therapy. The protein and method are useful for screening,
CC diagnosing or prognosing diseases associated with abnormal expression of
CC carbonic anhydrase IX protein, such as precancerous and cancerous
CC diseases like renal cell carcinoma, breast cancer or colorectal cancer.
CC The monoclonal antibody may also be used for treating or preventing
CC precancerous and cancerous diseases. The present sequence is that of a
CC splice acceptor site from a human MN gene intron-exon boundary which is
CC related to the invention.
XX Sequence 11 BP; 2 A; 2 C; 6 G; 1 T; 0 U; 0 Other;
QY Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1028 AGAAGTGGG 1037
11 TTTTCCCCA 2

Db 1 AGCAGGTGGG 10
RESULT 128
ADQ35643/c
ID ADQ35643 standard; DNA; 11 BP.
AC ADQ35643;
XX 23-SEP-2004 (first entry)
XX Human hair-bearing skin-associated DNA fragment SEQ ID NO 460.
DE
XX hair-bearing skin; human; serial analysis of gene expression; SAGE;
KM homeostasis; cosmetic; pharmaceutical; biotech; ds.
XX Homo sapiens.
XX DE10260931-A1.
XX 08-JUL-2004.
XX 20-DEC-2002; 2002DE-01060931.
XX 20-DEC-2002; 2002DE-01060931.
XX (HENK) HENKEL KGAA.
XX Peterohn D, Schlotmann K, Gaassenmeier T, Holtkoetter O;
XX Conrad M, Hofmann K;
XX WPI; 2004-518857/50.
XX In vitro identification of genes important for hair-bearing skin, useful
PT for assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX Claim 5; SEQ ID NO 460; 250pp; German.
XX This invention describes a novel in vitro method for identifying genes
CC that are significant for hair-bearing skin in humans. The method
CC comprises recovering, from hair-bearing skin, a first mixture of
CC genetically expressed (transcribed and optionally translated) factors
CC (i.e. proteins, mRNA or their fragments), recovering a second, similar
CC mixture from skin on which hair does not grow and subjecting both
CC mixtures to serial analysis of gene expression (SAGE) to identify those
CC genes for which expression is markedly different between the two types of
CC skin. The invention also describes in vitro methods for determining
CC homeostasis of human hair-bearing skin and for determining activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human hair-bearing skin. A biotech and
CC a test kit comprising a solid support (flexible or rigid) with
CC immobilised probes are also described for determining homeostasis. The
CC hair-bearing skin is from the scalp and the other skin is from the face.
CC The method allows identification of as many as possible of the genes
CC important for hair-bearing skin, and therefore, of a very wide range of
CC potential therapeutic and cosmetic agents. ADQ35184-ADQ36518 represent
CC human DNA tag fragments used to identify genes associated with hair-
CC bearing skin.
XX Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
QY Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1026 CAGAAGCTG 1035
11 CCAGAAGCTG 2
RESULT 129
ADQ35785/c

KM homeostasis; biochip; cosmetic; pharmaceutical; ds.
 XX Homo sapiens.
 OS
 XX DE10260928-A1.
 PN
 XX 08-JUL-2004.
 PD
 XX 20-DEC-2002; 2002DE-01060928.
 PF
 XX 20-DEC-2002; 2002DE-01060928.
 PR
 XX (HENKEL) HENKEL KGAA.
 PA
 XX Peterohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
 PI Conradt M, Hofmann K;
 XX WPI; 2004-518855/50.
 DR
 XX
 XX In vitro identification of genes important for facial skin, useful for
 PT assessing homeostasis and in screening for pharmaceutical or cosmetic
 PT agents, based on differential expression analysis.
 PS
 XX Claim 9; SEQ ID NO 166; 577bp; German.
 CC This invention describes a novel in vitro method for identifying genes
 CC that are significant for facial skin in humans. The method comprises
 CC recovering, from facial skin, a first mixture of genetically expressed
 CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
 CC their fragments), recovering a second, similar mixture from some other
 CC human tissue, preferably skin from a protected area, especially from the
 CC breast and subjecting the mixtures to serial analysis of gene expression
 CC (SAGE) to identify those genes for which expression is markedly different
 CC between facial skin and the other tissue. The invention also describes an
 CC in vitro method for determining homeostasis of human facial skin; a test
 CC kit which comprises a solid support (flexible or rigid) on which are
 CC immobilised probes that bind specifically to the factors of interest and
 CC a biochip for determining homeostasis of human facial skin. The products
 CC of the invention are also used in a method which determines activity of
 CC cosmetic and pharmaceutical agents for use against disorders or
 CC disturbances of the homeostasis of human skin and a screening method for
 CC identifying cosmetic and pharmaceutical agents. The method allows
 CC identification of as many as possible of the genes important for facial
 CC skin and thus of a very wide range of potential therapeutic and cosmetic
 CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
 CC identify the facial skin-associated genes described in the invention.
 CC
 XX
 XX Sequence 11 BP; 6 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1023 GCCCAGAG 1032
 DB 1 GCACACAGAG 10
 RESULT 132
 ADQ34356/c
 ID ADQ34356 standard; DNA; 11 BP.
 AC
 XX ADQ34356;
 AC
 XX 23-SEP-2004 (first entry)
 DT
 XX Human facial skin-associated DNA fragment SEQ ID NO 2446.
 DE
 XX facial skin; human; serial analysis of gene expression; SAGE;
 KM homeostasis; biochip; cosmetic; pharmaceutical; ds.
 XX Homo sapiens.
 OS
 XX

PN DE10260928-A1.
 XX
 XX 08-JUL-2004.
 PD
 XX 20-DEC-2002; 2002DE-01060928.
 PF
 XX 20-DEC-2002; 2002DE-01060928.
 PR
 XX (HENKEL) HENKEL KGAA.
 PA
 XX Peterohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
 PI Conradt M, Hofmann K;
 XX WPI; 2004-518855/50.
 DR
 XX
 XX In vitro identification of genes important for facial skin, useful for
 PT assessing homeostasis and in screening for pharmaceutical or cosmetic
 PT agents, based on differential expression analysis.
 PS
 XX Claim 4; SEQ ID NO 2446; 577bp; German.
 CC This invention describes a novel in vitro method for identifying genes
 CC that are significant for facial skin in humans. The method comprises
 CC recovering, from facial skin, a first mixture of genetically expressed
 CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
 CC their fragments), recovering a second, similar mixture from some other
 CC human tissue, preferably skin from a protected area, especially from the
 CC breast and subjecting the mixtures to serial analysis of gene expression
 CC (SAGE) to identify those genes for which expression is markedly different
 CC between facial skin and the other tissue. The invention also describes an
 CC in vitro method for determining homeostasis of human facial skin; a test
 CC kit which comprises a solid support (flexible or rigid) on which are
 CC immobilised probes that bind specifically to the factors of interest and
 CC a biochip for determining homeostasis of human facial skin. The products
 CC of the invention are also used in a method which determines activity of
 CC cosmetic and pharmaceutical agents for use against disorders or
 CC disturbances of the homeostasis of human skin and a screening method for
 CC identifying cosmetic and pharmaceutical agents. The method allows
 CC identification of as many as possible of the genes important for facial
 CC skin and thus of a very wide range of potential therapeutic and cosmetic
 CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
 CC identify the facial skin-associated genes described in the invention.
 CC
 XX
 XX Sequence 11 BP; 2 A; 5 C; 0 G; 4 T; 0 U; 0 Other;
 SQ
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1028 AGAAGTGGG 1037
 DB 11 AGAAAGTGGG 2
 RESULT 133
 ADQ34361
 ID ADQ34361 standard; DNA; 11 BP.
 AC
 XX ADQ34361;
 AC
 XX 23-SEP-2004 (first entry)
 DT
 XX Human facial skin-associated DNA fragment SEQ ID NO 2451.
 DE
 XX facial skin; human; serial analysis of gene expression; SAGE;
 KM homeostasis; biochip; cosmetic; pharmaceutical; ds.
 XX Homo sapiens.
 OS
 XX DE10260928-A1.
 PN
 XX 08-JUL-2004.
 PD
 XX

PF 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gaessenmeier T, Holtkoetter O;
XX Conradt M, Hofmann K;
XX WPI; 2004-518855/50.
XX
XX
PT In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 4; SEQ ID NO 2451; 577bp; German.
XX
CC This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 4 A; 3 C; 4 G; 0 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1023 GCCCAGAG 1032
Db 2 GCCCAGAG 11
XX
RESULT 134
ADQ3229
ID ADQ3229 standard; DNA; 11 BP.
XX
AC ADQ3229;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human facial skin-associated DNA fragment SEQ ID NO 1319.
XX
KW facial skin; human; serial analysis of gene expression; SAGE;
KW homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX
OS Homo sapiens.
XX
PN DE10260928-A1.
XX
PD 08-JUL-2004.
XX
PF 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gaessenmeier T, Holtkoetter O;
XX Conradt M, Hofmann K;

PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gaessenmeier T, Holtkoetter O;
XX Conradt M, Hofmann K;
XX WPI; 2004-518855/50.
XX
XX
PT In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 5; SEQ ID NO 1319; 577bp; German.
XX
CC This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 4 A; 4 C; 2 G; 1 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1021 CTCGCCAAGA 1030
Db 2 CTCGCCAAGA 11
XX
RESULT 135
ADQ32097
ID ADQ32097 standard; DNA; 11 BP.
XX
AC ADQ32097;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human facial skin-associated DNA fragment SEQ ID NO 187.
XX
KW facial skin; human; serial analysis of gene expression; SAGE;
KW homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX
OS Homo sapiens.
XX
PN DE10260928-A1.
XX
PD 08-JUL-2004.
XX
PF 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gaessenmeier T, Holtkoetter O;
XX Conradt M, Hofmann K;

XX WPI; 2004-518855/50.
 DR
 XX
 PT In vitro identification of genes important for facial skin, useful for
 PT assessing homeostasis and in screening for pharmaceutical or cosmetic
 PT agents, based on differential expression analysis.
 PS
 XX Claim 9; SEQ ID NO 187; 577bp; German.
 XX
 CC This invention describes a novel in vitro method for identifying genes
 CC that are significant for facial skin in humans. The method comprises
 CC recovering, from facial skin, a first mixture of genetically expressed
 CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
 CC their fragments), recovering a second, similar mixture from some other
 CC human tissue, preferably skin from a protected area, especially from the
 CC breast and subjecting the mixtures to serial analysis of gene expression
 CC (SAGE) to identify those genes for which expression is markedly different
 CC between facial skin and the other tissue. The invention also describes an
 CC in vitro method for determining homeostasis of human facial skin; a test
 CC kit which comprises a solid support (flexible or rigid) on which are
 CC immobilised probes that bind specifically to the factors of interest and
 CC a biochip for determining homeostasis of human facial skin. The products of
 CC the invention are also used in a method which determines activity of
 CC cosmetic and pharmaceutical agents for use against disorders or
 CC disturbances of the homeostasis of human skin and a screening method for
 CC identifying cosmetic and pharmaceutical agents. The method allows
 CC identification of as many as possible of the genes important for facial
 CC skin and thus of a very wide range of potential therapeutic and cosmetic
 CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
 CC identify the facial skin-associated genes described in the invention.
 CC
 XX Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
 SQ
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1027 AAGAAAGTGG 1036
 |||||
 Db 2 AAGAAAGTGG 11
 RESULT 136
 AAT09397
 ID AAT09397 standard; DNA; 8 BP.
 XX
 AC AAT09397;
 XX
 DT 25-MAR-2003 (revised)
 DT 21-JUN-1996 (first entry)
 XX
 DE 5'-primer used for characterisation of human biological samples.
 XX
 KM 5'-primer; human; protein coding region; PCR primer kit;
 KM characterisation; biological samples; PCR amplification; indexing;
 KM identification; cloning; analysis; genes; genome mapping;
 KM disease diagnosis; ss.
 XX
 OS Synthetic.
 OS
 XX
 PN WO9531574-A1.
 XX
 PD 23-NOV-1995.
 XX
 PF 12-MAY-1995; 95WO-US006032.
 XX
 PR 16-MAY-1994; 94US-00242887.
 XX
 PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 PI Lopeznieo CE, Nigam SK;
 XX
 DR WPI; 1996-010958/01.

XX
 PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 PS
 XX Claim 5; Page 44; 72pp; English.
 XX
 CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)
 CC
 XX Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 4.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1026 CAAGAAAG 1033
 |||||
 Db 1 CAAGAAAG 8
 RESULT 137
 AAT09546/c
 ID AAT09546 standard; DNA; 8 BP.
 XX
 AC AAT09546;
 XX
 DT 25-MAR-2003 (revised)
 DT 25-JUN-1996 (first entry)
 XX
 DE 3'-primer used for characterisation of human biological samples.
 XX
 KM 3'-primer; human; protein coding region; PCR primer kit;
 KM characterisation; biological samples; PCR amplification; indexing;
 KM identification; cloning; analysis; genes; genome mapping;
 KM disease diagnosis; ss.
 XX
 OS Synthetic.
 OS
 XX
 PN WO9531574-A1.
 XX
 PD 23-NOV-1995.
 XX
 PF 12-MAY-1995; 95WO-US006032.
 XX
 PR 16-MAY-1994; 94US-00242887.
 XX
 PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 PI Lopeznieo CE, Nigam SK;
 XX
 DR WPI; 1996-010958/01.
 XX
 PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 PS
 XX Disclosure; Page 19; 72pp; English.
 XX
 CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of

CC Genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 8 BP; 0 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1026 CCAAGAGG 1033
|||||
8 CCAAGAGG 1

RESULT 138

AAT09415
ID AAT09415 standard; DNA; 8 BP.

AC AAT09415;

DT 25-MAR-2003 (revised)
21-JUN-1996 (first entry)

DE 5'-primer used for characterisation of human biological samples.

XX 5'-primer; human; protein coding region; PCR primer kit;
KW characterisation; biological samples; PCR amplification; indexing;
KM identification; cloning; analysis; genes; genome mapping;
KW disease diagnosis; ss.

OS Synthetic.

PN WO9531574-A1.

PD 23-NOV-1995.

PF 12-MAY-1995; 95WO-US006032.

PR 16-MAY-1994; 94US-00242887.

PA (BGHM) BRIGHAM & WOMENS HOSPITAL.

PI Lopeznielo CE, Nigam SK;

PP WPI; 1996-010958/01.

PT Characterisation of nucleotide sequences using primer pairs - by PCR
PT amplification and indexing of amplification prods. w.r.t. primers used
PT for genome mapping and disease diagnosis.

PS Claim 5; Page 44; 72pp; English.

XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
CC target human protein coding regions, together comprise a PCR primer kit
CC with 1361 possible primer pairs. The kit is used in a new method for the
CC characterisation of nucleic acid sequences obtd. from human biological
CC samples, which comprises PCR amplification and indexing of the prods.
CC w.r.t. the primer pair that hybridised to its delineating subsequences.
CC The method may be used in the identification, cloning and analysis of
CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 8 BP; 4 A; 2 C; 2 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAGG 1032
|||||
1 CCAAGAGG 8

RESULT 139
AAT09568/c
ID AAT09568 standard; DNA; 8 BP.

AC AAT09568;

DT 25-MAR-2003 (revised)
25-JUN-1996 (first entry)

DE 3'-primer used for characterisation of human biological samples.

XX 3'-primer; human; protein coding region; PCR primer kit;
KW characterisation; biological samples; PCR amplification; indexing;
KM identification; cloning; analysis; genes; genome mapping;
KW disease diagnosis; ss.

OS Synthetic.

PN WO9531574-A1.

PD 23-NOV-1995.

PF 12-MAY-1995; 95WO-US006032.

PR 16-MAY-1994; 94US-00242887.

PA (BGHM) BRIGHAM & WOMENS HOSPITAL.

PI Lopeznielo CE, Nigam SK;

PP WPI; 1996-010958/01.

PT Characterisation of nucleotide sequences using primer pairs - by PCR
PT amplification and indexing of amplification prods. w.r.t. primers used
PT for genome mapping and disease diagnosis.

PS Disclosure; Page 19; 72pp; English.

XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
CC target human protein coding regions, together comprise a PCR primer kit
CC with 1361 possible primer pairs. The kit is used in a new method for the
CC characterisation of nucleic acid sequences obtd. from human biological
CC samples, which comprises PCR amplification and indexing of the prods.
CC w.r.t. the primer pair that hybridised to its delineating subsequences.
CC The method may be used in the identification, cloning and analysis of
CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 8 BP; 0 A; 2 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAGG 1032
|||||
8 CCAAGAGG 1

RESULT 140

ABQ71965
ID ABQ71965 standard; DNA; 9 BP.

AC ABQ71965;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related oligonucleotide target SEQ ID NO:2263.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.

OS Homo sapiens.

OS Synthetic.

XX MO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US043438.
XX
XX 20-NOV-2000; 2000US-00716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
XX
XX WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering, comprises
PT first, second and third zinc fingers, ordered from N- to C-terminus.
XX
XX Example 1; Page 59; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to a
CC target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it
CC binds to the S1 target sub-site, selecting the F2 zinc finger such that it
CC binds to the S2 target sub-site, and selecting the F3 zinc finger such
CC that it binds to the S3 target sub-site, thus designing (I) that binds to
CC a target site. (I) is useful for recognition of triplet target sub-sites
CC having the nucleotide G in the 5'-most position of the sub-site. (I) is
CC useful in studying gene function, and for human therapeutics and plant
CC engineering. (I), (II) or (III) is useful in therapeutic methods to
CC modulate the expression of a target region within a subject. In
CC diagnostic methods for sequence specific detection of target nucleic acid
CC in a sample, and in assays to determine the phenotype and function of
CC gene expression. (I) has improved affinity and specificity for their
CC target sequences, as well as enhanced biological activity. ABQ71213 to
CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc
CC finger peptides which are given in the exemplification of the present
CC invention.
XX
XX Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
SQ
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTG 1035
Db 2 AGAAGGTG 9
RESULT 141
ABQ71964
ID ABQ71964 standard; DNA; 9 BP.
XX
XX ABQ71964;
XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related oligonucleotide target SEQ ID NO:2262.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
XX
XX Homo sapiens.
OS Synthetic.
XX
XX MO200242459-A2.
XX
XX 30-MAY-2002.

XX
XX 20-NOV-2001; 2001WO-US043438.
XX
XX 20-NOV-2000; 2000US-00716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
XX
XX WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering, comprises
PT first, second and third zinc fingers, ordered from N- to C-terminus.
XX
XX Example 1; Page 59; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to a
CC target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it
CC binds to the S1 target sub-site, selecting the F2 zinc finger such that it
CC binds to the S2 target sub-site, and selecting the F3 zinc finger such
CC that it binds to the S3 target sub-site, thus designing (I) that binds to
CC a target site. (I) is useful for recognition of triplet target sub-sites
CC having the nucleotide G in the 5'-most position of the sub-site. (I) is
CC useful in studying gene function, and for human therapeutics and plant
CC engineering. (I), (II) or (III) is useful in therapeutic methods to
CC modulate the expression of a target region within a subject. In
CC diagnostic methods for sequence specific detection of target nucleic acid
CC in a sample, and in assays to determine the phenotype and function of
CC gene expression. (I) has improved affinity and specificity for their
CC target sequences, as well as enhanced biological activity. ABQ71213 to
CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc
CC finger peptides which are given in the exemplification of the present
CC invention.
XX
XX Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
SQ
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTG 1035
Db 2 AGAAGGTG 9
RESULT 142
ABQ71781
ID ABQ71781 standard; DNA; 9 BP.
XX
XX ABQ71781;
XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related oligonucleotide target SEQ ID NO:2079.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
XX
XX Homo sapiens.
OS Synthetic.
XX
XX MO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US043438.
XX
XX 20-NOV-2000; 2000US-00716637.

XX	(SANG-) SANGAMO BIOSCIENCES INC.
PA	
XX	
PI	Liu Q;
XX	
XX	WP1; 2002-500284/53.
DR	
XX	
PT	New zinc finger protein that binds to target site, useful in studying
PT	gene function and for human therapeutics and plant engineering, comprises
PT	first, second and third zinc fingers, ordered from N- to C-terminus.
XX	
PS	Example 1; Page 55; 81pp; English.
XX	
CC	The present invention describes a zinc finger protein (I) that binds to a
CC	target site, comprising a first (F1), a second (F2), and a third (F3)
CC	zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC	target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC	and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC	(II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC	(3) designing (M) (I) involves selecting the F1 zinc finger such that it
CC	binds to the S1 target sub-site, selecting the F2 zinc finger such that it
CC	binds to the S2 target sub-site, and selecting the F3 zinc finger such
CC	that it binds to the S3 target sub-site, thus designing (I) that binds to
CC	a target site. (I) is useful for recognition of triplet target sub-sites
CC	having the nucleotide G in the 5'-most position of the sub-site. (I) is
CC	useful in studying gene function, and for human therapeutics and plant
CC	engineering. (I), (II) or (III) is useful in therapeutic methods to
CC	modulate the expression of a target region within a subject, in
CC	diagnostic methods for sequence specific detection of target nucleic acid
CC	in a sample, and in assays to determined the phenotype and function of
CC	gene expression. (I) has improved affinity and specificity for their
CC	target sequences, as well as enhanced biological activity. ABQ71213 to
CC	ABQ7214 and ABP48191 to ABP51230 represent DNA target sequences and zinc
CC	finger peptides which are given in the exemplification of the present
CC	invention
XX	
SO	Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
	Query Match 40.0%; Score 8; DB 1; Length 9;
	Best Local Similarity 100.0%; Pred. No. 4.3e+02;
	Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1030 AAGGTGGG 1037
DB	1 AAGGTGGG 8
RESULT 143	
ABQ71780	
ID	ABQ71780 standard; DNA; 9 BP.
XX	
XX	ABQ71780;
AC	
XX	28-AUG-2002 (first entry)
DT	
XX	
DE	Zinc finger protein related oligonucleotide target SEQ ID NO:2078.
XX	
KM	Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
XX	
OS	Homo sapiens.
XX	
OS	Synthetic.
XX	
PN	MO200242459-A2.
XX	
PD	30-MAY-2002.
XX	
XX	20-NOV-2001; 2001WO-US043438.
XX	
PR	20-NOV-2000; 2000US-00716637.
XX	
PA	(SANG-) SANGAMO BIOSCIENCES INC.
XX	
PI	Liu Q;
XX	

XX	WR; 2002-500284/53.	
XX		
PT	New zinc finger protein that binds to target site, useful in studying	
PT	gene function and for human therapeutics and plant engineering, comprises	
PT	first, second and third zinc fingers, ordered from N- to C-terminus.	
PS		
PS	Example 1; Page 55; 81pp; English.	
XX		
CC	The present invention describes a zinc finger protein (I) that binds to a	
CC	target site, comprising a first (F1), a second (F2), and a third (F3)	
CC	zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the	
CC	target site comprises, in 3',-5' direction, a first (S1), a polypeptide (S2),	
CC	and a third (S3) target sub-site. Also described are: (1) a polypeptide	
CC	(II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and	
CC	(3) designing (M) (I) involves selecting the F1 zinc finger such that it	
CC	binds to the S1 target sub-site, selecting the F2 zinc finger such that it	
CC	binds to the S2 target sub-site, and selecting the F3 zinc finger such	
CC	that it binds to the S3 target sub-site, thus designing (I) that binds to	
CC	a target site. (I) is useful for recognition of triplet target sub-sites	
CC	having the nucleotide G in the 5'-most position of the sub-site. (I) is	
CC	useful in studying gene function, and for human therapeutics and plant	
CC	engineering. (I), (II) or (III) is useful in therapeutic methods to	
CC	modulate the expression of a target region within a subject, in	
CC	diagnostic methods for sequence specific detection of target nucleic acid	
CC	in a sample, and in assays to determine the phenotype and function of	
CC	gene expression. (I) has improved affinity and specificity for their	
CC	target sequences, as well as enhanced biological activity. ABQ71213 to	
CC	ABQ72214 and ABQ48191 to ABP51230 represent DNA target sequences and zinc	
CC	finger peptides which are given in the exemplification of the present	
CC	invention	
SQ		
SQ	Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;	
	Query Match 40.0%; Score 8; DB 1; Length 9;	
	Best Local Similarity 100.0%; Pred.No. 4.3e+02;	
	Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY		
QY	1030 AAGGTGGG 1037	
Db	1 AAGGTGGG 8	
RESULT 144		
ACD06034/C		
ID	ACD06034 standard; DNA; 9 BP.	
XX		
AC	ACD06034;	
XX		
DT	05-AUG-2003 (first entry)	
DE		
XX		
XX	Human VEGF-targeted zinc finger protein target sequence #7.	
KM	Zinc finger protein; antiarteriosclerotic; vasotropic; antiarthritic;	
KM	cytostatic; antipsoriatic; ophthalmological; antidiabetic; antileukar;	
KM	vulnerary; gene therapy; vascular endothelial growth factor; VEGF;	
KM	angiogenesis; atherosclerosis; ischemia; arthritis; tumour; psoriasis;	
KM	diabetic retinopathy; ulcer; wound; ds.	
XX		
OS	Homo sapiens.	
XX		
FN	US2003044404-A1.	
XX		
PD	06-MAR-2003.	
XX		
XX	30-APR-2001; 2001US-00846033.	
XX		
XX	07-DEC-2000; 2000US-00733604.	
PR	12-DEC-2000; 2000US-00736083.	
XX		
XX		
FA	(REBAR E.	
FA	(JAMIT) JAMIESON A.	
FA	(LTUO/) LTU Q.	

PA (LIU/) LIU P.
PA (WOLFE/) WOLFE A.
PA (EISEN/) EISENBERG S P.
PA (JARV/) JARVIS E.
XX Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX WPI; 2003-456550/43.
XX
XX New zinc finger protein that binds to a target site in the human vascular
PT endothelial growth factor gene, useful for regulating angiogenesis, e.g.
PT in the treatment of atherosclerosis, ischemia, arthritis, tumors, ulcer
PT or wounds.
XX
XX Example 6; Page 42; 75pp; English.
XX
CC The invention describes a zinc finger protein (ZFP) that binds to a
CC target site having a nucleotide sequence of any of the human vascular
CC endothelial growth factor (VEGF) genes listed in the specification. The
CC composition and methods are useful in regulating angiogenesis, such as in
CC the treatment of atherosclerosis, ischemia, arthritis, tumors,
CC psoriasis, diabetic retinopathy, ulcer or wounds. The composition may
CC also be used in screening for agents capable of modulating angiogenesis,
CC and in various diagnostic applications. This sequence represents a
CC vascular endothelial growth factor (VEGF) targeting zinc finger protein
CC zinc finger domain target DNA
XX
SQ Sequence 9 BP; 2 A; 2 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1020 TCTGCCCA 1027
DB 8 TCTGCCCA 1
RESULT 145
ACD19256/C
ID ACD19256 standard; DNA; 9 BP.
XX
AC ACD19256;
XX
DT 22-AUG-2003 (first entry)
XX
DE Human VEGF-targeted ZFP HM 19A target sequence.
XX
KM Zinc finger protein; vascular endothelial growth factor; VEGF; ischemia;
KM atherosclerosis; tumor; arthritis; bone injury; wound; ulcer; surgery;
KM angiogenesis; pregnancy; embryogenesis; ds; human.
XX
OS Homo sapiens.
XX
PN US2003021776-A1.
XX
PD 30-JAN-2003.
XX
PF 06-DEC-2001; 2001US-0006069.
XX
XX 07-DEC-2000; 2000US-00733604.
PR 12-DEC-2000; 2000US-00736083.
PR 30-APR-2001; 2001US-00846033.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX WPI; 2003-466074/44.
XX
XX Novel zinc finger protein that binds to a target site, useful for

PT modulating vascular endothelial growth factor gene expression, for
PT modulating angiogenesis, for wound healing and for treating ischemia.
XX
XX Disclosure; Page 43; 120pp; English.
XX
XX The invention relates to a zinc finger protein that binds to a target
CC site. The zinc finger protein is useful for modulating expression of a
CC vascular endothelial growth factor (VEGF) gene. The expression of a
CC number of splice variants of VEGF gene is modulated. A number of target
CC sites are contacted with a number of zinc finger proteins and each zinc
CC finger protein binds to a distinct target site. The zinc finger protein
CC is administered in combination with a delivery vehicle, or its nucleic
CC acid is administered into the cell, either in naked form or delivered in
CC an expression vector. The zinc finger protein or nucleic acid is useful
CC for treating a disease or injury such as atherosclerosis, ischemia,
CC tumor, arthritis, bone injury, wounds and ulcer in a subject. The zinc
CC finger protein is also useful for modulating angiogenesis, by introducing
CC the zinc finger protein into an animal, where the animal has a genome
CC comprising a target site within a VEGF gene. The zinc finger protein is
CC also useful for screening for a modulator of expression of a VEGF gene.
CC The zinc finger protein and nucleic acid are also useful to promote
CC development of the corpus luteum and endometrium, which is useful for
CC initiating and/or maintaining pregnancy and for supporting embryogenesis.
CC The zinc finger protein and its nucleic acid are also useful in surgical
CC applications. The present sequence represents a human VEGF targeted zinc
CC finger protein ZFP target sequence
XX
SQ Sequence 9 BP; 2 A; 2 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1020 TCTGCCCA 1027
DB 8 TCTGCCCA 1
RESULT 146
ADA64108
ID ADA64108 standard; DNA; 9 BP.
XX
AC ADA64108;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #566.
XX
KM de; target sequence; zinc finger protein;
KM multi-finger zinc finger protein; improved affinity;
KM improved specificity; enhanced biological activity.
XX
OS Synthetic.
XX
PN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
XX 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146585P.
PR 30-JUL-1999; 99US-0146585P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIU/) LIU Q.
XX
PI Liu Q;
XX
XX WPI; 2003-567233/53.
XX

PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
XX
PS Disclosure; Page 22; 34pp; English.
XX
XX The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
XX Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
SQ
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;
QY 1030 AAGCTGGG 1037
Db 1 AAGCTGGG 8
RESULT 147
ADA64291
ID ADA64291 standard; DNA; 9 BP.
XX
AC ADA64291;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #749.
XX
XX de; target sequence; zinc finger protein;
KM multi-finger zinc finger protein; improved affinity;
KM improved specificity; enhanced biological activity.
XX
XX Synthetic.
OS
XX
XX US2003068675-A1.
PN
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
XX (LIUQ/) LIU Q.
PA
XX
PI Liu Q;
XX
XX WPI; 2003-567233/53.
DR
XX
XX Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
XX
PS Disclosure; Page 24; 34pp; English.
XX
XX The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
XX Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
SQ
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;

Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;
QY 1028 AGAAGGTG 1035
Db 2 AGAAGGTG 9
RESULT 148
ADA64292
ID ADA64292 standard; DNA; 9 BP.
XX
AC ADA64292;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #750.
XX
XX de; target sequence; zinc finger protein;
KM multi-finger zinc finger protein; improved affinity;
KM improved specificity; enhanced biological activity.
XX
XX Synthetic.
OS
XX
XX US2003068675-A1.
PN
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
XX (LIUQ/) LIU Q.
PA
XX
PI Liu Q;
XX
XX WPI; 2003-567233/53.
DR
XX
XX Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
XX
PS Disclosure; Page 24; 34pp; English.
XX
XX The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
XX Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
SQ
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;
QY 1028 AGAAGGTG 1035
Db 2 AGAAGGTG 9
RESULT 149
ADA64107
ID ADA64107 standard; DNA; 9 BP.
XX
AC ADA64107;
XX
DT 20-NOV-2003 (first entry)

XX zinc finger target sequence DNA #565.
DE
XX
KM db; target sequence; zinc finger protein;
KM multi-finger zinc finger protein; improved affinity;
KM improved specificity; enhanced biological activity.
XX
OS Synthetic.
XX
FN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI LIU Q;
XX
DR WPI; 2003-567233/53.
XX
PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
PS Disclosure; Page 22; 34pp; English.
XX
CC The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
XX
QY
Db 1030 AACGTGGG 1037
1 AACGTGGG 8
XX
RESULT 150
ADM22799
ID ADM22799 standard; DNA; 9 BP.
XX
AC ADM22799;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #565.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
PN US2003104526-A1.
XX
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.

PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
XX (LIUQ/) LIU Q.
XX
PI LIU Q;
XX
DR WPI; 2003-843091/78.
XX
PT New zinc finger protein used for recognizing triplet target subsites
PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2078; 48pp; English.
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognizing triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the
CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
XX
QY
Db 1030 AACGTGGG 1037
1 AACGTGGG 8
XX
RESULT 151
ADM22984
ID ADM22984 standard; DNA; 9 BP.
XX
AC ADM22984;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #750.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
PN US2003104526-A1.
XX
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI LIU Q;
XX
DR WPI; 2003-843091/78.
XX
PT New zinc finger protein used for recognizing triplet target subsites

PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2263; 48bp; English.
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognising triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the
CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1028 AGAAGGTG 1035
|||
2 AGAAGGTG 9
XX
Db
XX
RESULT 152
ADM22983
ID ADM22983 standard; DNA; 9 BP.
XX
XX ADM22983;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #749.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
PN US2003104526-A1.
XX
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
XX 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-843091/78.
XX
XX
PT New zinc finger protein used for recognizing triplet target subsites
PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2262; 48bp; English.
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognising triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the

CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1028 AGAAGGTG 1035
|||
2 AGAAGGTG 9
XX
Db
XX
RESULT 153
ADM22800
ID ADM22800 standard; DNA; 9 BP.
XX
XX ADM22800;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #566.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
PN US2003104526-A1.
XX
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
XX 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-843091/78.
XX
XX
PT New zinc finger protein used for recognizing triplet target subsites
PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2079; 48bp; English.
XX
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognising triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the
CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1030 AAGTGGG 1037
|||
|||

Db 1 AACGTGGG 8

RESULT 154

AAZ79378

AAZ79378 standard; DNA, 10 BP.

AAZ79378;

10-APR-2000 (first entry)

Human dendritic cell SAGE tag; SEQ ID NO:1806.

SAGE tag; serial analysis of gene expression; antigen-presenting cell; APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL; cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

Homo sapiens.

MO9965924-A2.

23-DEC-1999.

18-JUN-1999; 99WO-US013800.

19-JUN-1998; 98US-0089833P.

19-JUN-1998; 98US-0089844P.

19-JUN-1998; 98US-0089853P.

19-JUN-1998; 98US-0089878P.

19-JUN-1998; 98US-0089919P.

19-JUN-1998; 98US-0089932P.

19-JUN-1998; 98US-0089933P.

19-JUN-1998; 98US-0089949P.

19-JUN-1998; 98US-0089977P.

19-JUN-1998; 98US-0089999P.

19-JUN-1998; 98US-0090000P.

19-JUN-1998; 98US-0090035P.

19-JUN-1998; 98US-0090036P.

19-JUN-1998; 98US-0090039P.

19-JUN-1998; 98US-0090041P.

19-JUN-1998; 98US-0090042P.

19-JUN-1998; 98US-0090043P.

19-JUN-1998; 98US-0090044P.

19-JUN-1998; 98US-0090045P.

19-JUN-1998; 98US-0090047P.

19-JUN-1998; 98US-0090048P.

19-JUN-1998; 98US-0090072P.

19-JUN-1998; 98US-0090076P.

19-JUN-1998; 98US-0090077P.

19-JUN-1998; 98US-0090078P.

19-JUN-1998; 98US-0090079P.

19-JUN-1998; 98US-0090080P.

08-DEC-1998; 98US-0111715P.

(GENZ) GENZYME CORP.

(ROBE/) ROBERTS B L.

(SHAN/) SHANKARA S.

Roberts BL, Shankara S;

WPI; 2000-106077/09.

Isolated polynucleotide sequences differentially expressed in antigen-presenting cells, useful in gene vaccines against cancer.

Claim 1, Page 116, 130pp; English.

Sequences AAZ79378-279709 represent SAGE (serial analysis of gene expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared

CC with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen for agents that modulate expression of differentially expressed genes in an APC; and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy (or to stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of tumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites, recruitment of T cell growth factors and secretion of chemokines for

CC Sequence 10 BP, 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

XX

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 66;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1018 CTTCTGCC 1025

Db 2 CTTCTGCC 9

RESULT 155

AAZ77868/c

AAZ77868 standard; DNA, 10 BP.

AAZ77868;

10-APR-2000 (first entry)

Human dendritic cell SAGE tag; SEQ ID NO:296.

SAGE tag; serial analysis of gene expression; antigen-presenting cell; APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL; cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

Homo sapiens.

MO9965924-A2.

23-DEC-1999.

18-JUN-1999; 99WO-US013800.

19-JUN-1998; 98US-0089833P.

19-JUN-1998; 98US-0089844P.

19-JUN-1998; 98US-0089853P.

19-JUN-1998; 98US-0089878P.

19-JUN-1998; 98US-0089919P.

19-JUN-1998; 98US-0089932P.

19-JUN-1998; 98US-0089933P.

19-JUN-1998; 98US-0089949P.

19-JUN-1998; 98US-0089977P.

19-JUN-1998; 98US-0089999P.

PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B. L.
PA (SHAN/) SHANKARA S.
PI
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 72; 130pp; English.
XX
XX Sequences AA277573-279709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
XX immunostimulatory cofactor proteins which are preferentially or
XX differentially expressed in monocyte-derived dendritic cells compared
XX with monocytes. Some of the transcripts correspond to known genes or ESTs
XX (expressed sequence tags) which were previously unknown to be
XX preferentially or differentially expressed in dendritic cells, while
XX other transcripts correspond to novel genes. Antigen-presenting cell
XX (APC)-associated costimulatory factors play an important role in the
XX activation of the cytotoxic immune response, particularly against tumour
XX cells. Tumour antigen presentation via the MHC (major histocompatibility
XX complex) and subsequent recognition by T-cell receptors is alone
XX insufficient to activate a robust cytotoxic immune response that can lyse
XX the tumour cells, immunostimulatory cofactors also being required for
XX efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
XX sequences identified using the SAGE tags have several potential uses.
XX They may be used in vaccines to induce an immune response, particularly
XX against a tumour antigen; to modulate the genotype of an APC; to screen
XX for agents that modulate expression of differentially expressed genes in
XX an APC; and as hybridisation probes/amplification primers for the
XX diagnosis, prognosis and monitoring of diseases related to abnormal
XX expression of these genes. Detection of the dendritic cell differentially
XX expressed genes, or of their encoded proteins, can be used to identify
XX cells as belonging to the monocyte lineage. Cells containing these genes
XX can be used in active immunotherapy (or to stimulate production of a
XX population of antigen-specific effector cells) and vectors containing
XX them are used in gene therapy. Co-administration of tumour antigens and
XX APC-associated costimulatory factors ensures adequate antigen
XX presentation to endogenous APCs and upregulates the APCs for the
XX presentation of co-stimulatory signals, migration to T cell-rich sites,
XX secretion of T cell growth factors and secretion of chemokines for
XX recruitment of immune effector cells
XX
XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
XX
XX
XX Query Match 40.0%; Score 8; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 66;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1028 AGAGGTG 1035

DB 9 AGAGGTG 2
|||||
RESULT 156
AA278273
ID AA278273 standard; DNA; 10 BP.
XX
XX AA278273;
AC
XX
DT 10-APR-2000 (first entry)
XX
XX Human dendritic cell SAGE tag, SEQ ID NO:701.
DE
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
XX APC; monocyte-derived dendritic cell; differential gene expression;
XX immunostimulatory cofactor; costimulatory factor; CTL;
XX Cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
XX
XX WO965924-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013800.
XX
XX 19-JUN-1998; 98US-0089833P.
XX 19-JUN-1998; 98US-0089844P.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089878P.
XX 19-JUN-1998; 98US-008991P.
XX 19-JUN-1998; 98US-008992P.
XX 19-JUN-1998; 98US-008993P.
XX 19-JUN-1998; 98US-008994P.
XX 19-JUN-1998; 98US-008997P.
XX 19-JUN-1998; 98US-008999P.
XX 19-JUN-1998; 98US-009000P.
XX 19-JUN-1998; 98US-0090035P.
XX 19-JUN-1998; 98US-0090036P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.
XX 19-JUN-1998; 98US-0090041P.
XX 19-JUN-1998; 98US-0090042P.
XX 19-JUN-1998; 98US-0090043P.
XX 19-JUN-1998; 98US-0090044P.
XX 19-JUN-1998; 98US-0090045P.
XX 19-JUN-1998; 98US-0090047P.
XX 19-JUN-1998; 98US-0090048P.
XX 19-JUN-1998; 98US-0090072P.
XX 19-JUN-1998; 98US-0090076P.
XX 19-JUN-1998; 98US-0090077P.
XX 19-JUN-1998; 98US-0090078P.
XX 19-JUN-1998; 98US-0090079P.
XX 19-JUN-1998; 98US-0090080P.
XX 08-DEC-1998; 98US-0111715P.
XX
XX (GENZ) GENZYME CORP.
XX (ROBE/) ROBERTS B. L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
XX
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 85; 130pp; English.
XX
XX
XX Sequences AA277573-279709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
XX immunostimulatory cofactor proteins which are preferentially or

CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells

Sequence 10 BP, 1 A, 4 C, 1 G, 4 T, 0 U, 0 Other;

	Query Match	Score 8;	DB 1;	Length 10;
	Best Local Similarity	100.0%;	Pred. No. 66;	
Matches	8; Conservative	0;	Mismatches	0; Indels
Gaps				0;
OY	1018 CTTCTGCC	1025		
db	2 CTTCTGCC	9		

RESULT 157	
AAZ78942/c	
ID	AAZ78942 standard; DNA; 10 BP.
AC	AAZ78942;
XX	
DT	10-APR-2000 (first entry)
DE	Human dendritic cell SAGE tag, SEQ ID NO:1370.
XX	
KM	SAGE tag; serial analysis of gene expression; antigen-presenting cell
KM	APC; monocyte-derived dendritic cell; differential gene expression;
KM	immunostimulatory cofactor; costimulatory factor; CTL;
KM	Cytotoxic T-lymphocyte; tumour antigen; Immunotherapy; anticancer; ss
XX	
OS	Homo sapiens.
XX	
PN	W0965924-A2.
PD	
XX	
PD	23-DEC-1999.
XX	
PF	18-JUN-1999; 99WO-US01800.
XX	
PR	19-JUN-1998; 98US-0089833P.
PR	19-JUN-1998; 98US-0089844P.
PR	19-JUN-1998; 98US-0089853P.
PR	19-JUN-1998; 98US-0089878P.
PR	19-JUN-1998; 98US-0089921P.
PR	19-JUN-1998; 98US-0089932P.
PR	19-JUN-1998; 98US-0089933P.
PR	19-JUN-1998; 98US-0089944P.
PR	19-JUN-1998; 98US-0089977P.

XX	PR	19-JUN-1998;	98US-0089999P.
XX	PR	19-JUN-1998;	98US-0090000P.
XX	PR	19-JUN-1998;	98US-0090003P.
XX	PR	19-JUN-1998;	98US-0090003P.
XX	PR	19-JUN-1998;	98US-00900036P.
XX	PR	19-JUN-1998;	98US-00900039P.
XX	PR	19-JUN-1998;	98US-00900040P.
XX	PR	19-JUN-1998;	98US-00900041P.
XX	PR	19-JUN-1998;	98US-00900042P.
XX	PR	19-JUN-1998;	98US-00900043P.
XX	PR	19-JUN-1998;	98US-00900044P.
XX	PR	19-JUN-1998;	98US-00900045P.
XX	PR	19-JUN-1998;	98US-00900047P.
XX	PR	19-JUN-1998;	98US-00900048P.
XX	PR	19-JUN-1998;	98US-00900072P.
XX	PR	19-JUN-1998;	98US-00900076P.
XX	PR	19-JUN-1998;	98US-00900077P.
XX	PR	19-JUN-1998;	98US-00900078P.
XX	PR	19-JUN-1998;	98US-00900079P.
XX	PR	19-JUN-1998;	98US-0090080P.
XX	PR	08-DEC-1998;	98US-011715P.
PA	(GENZ)	GENZYME CORP.	
PA	(ROBE/)	ROBERTS B.L.	
PA	(SHAN/)	SHANKARA S.	
PI	Roberts BL,	Shankara S;	
XX			
XX			
DR	WPI;	2000-106077/09.	
PT	Isolated polynucleotides	differentially expressed in antigen-presenting	
PT	cells, useful in gene vaccines	against cancer.	
PS	Claim 1;	Page 104; 130p;	English.

CC Sequences 1AAZ71573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed gene, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells

Sequence	10	BP;	4	A;	1	C;	4	G;	1	T;	0	U;	0	Other;
Query Match														
Best Local Similarity														
Matches	8;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;					

Oy 1018 TTCTGCC 1025
Db 8 TTCTGCC 1

RESULT 158
AAZ77770/c
ID AAZ77770 standard; DNA; 10 BP.

AAZ77770;
10-APR-2000 (first entry)

Human dendritic cell SAGE tag. SEQ ID NO:198.

SAGE tag; serial analysis of gene expression; antigen-presenting cell;
APC; monocyte-derived dendritic cell; differential gene expression;
immunostimulatory cofactor; costimulatory factor; CTL;
cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

Homo sapiens.
MO9965924-A2.
23-DEC-1999.

18-JUN-1999; 99WO-US013800.
19-JUN-1998; 98US-0089833P.
19-JUN-1998; 98US-0089844P.
19-JUN-1998; 98US-0089853P.
19-JUN-1998; 98US-0089878P.
19-JUN-1998; 98US-0089919P.
19-JUN-1998; 98US-0089929P.
19-JUN-1998; 98US-0089933P.
19-JUN-1998; 98US-0089949P.
19-JUN-1998; 98US-0089997P.
19-JUN-1998; 98US-0089999P.
19-JUN-1998; 98US-0090000P.
19-JUN-1998; 98US-0090035P.
19-JUN-1998; 98US-0090036P.
19-JUN-1998; 98US-0090039P.
19-JUN-1998; 98US-0090041P.
19-JUN-1998; 98US-0090042P.
19-JUN-1998; 98US-0090043P.
19-JUN-1998; 98US-0090044P.
19-JUN-1998; 98US-0090045P.
19-JUN-1998; 98US-0090047P.
19-JUN-1998; 98US-0090072P.
19-JUN-1998; 98US-0090076P.
19-JUN-1998; 98US-0090077P.
19-JUN-1998; 98US-0090078P.
19-JUN-1998; 98US-0090079P.
19-JUN-1998; 98US-0090080P.
08-DEC-1998; 98US-0111715P.

(GENZ) GENZYME CORP.
(ROBE/) ROBERTS B L.
(SHAN/) SHANKARA S.

Roberts BL, Shankara S;
WPI; 2000-106077/09.

Isolated polynucleotides differentially expressed in antigen-presenting
cells, useful in gene vaccines against cancer.

Claim 1; Page 69; 130pp; English.

Sequences AAZ77573-579709 represent SAGE (serial analysis of gene
expression) tags used to identify mRNA transcripts encoding

CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
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CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC recruitment of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells

XX
SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred.No.66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1019 TTCTGCC 1026
Db 8 TTCTGCC 1

RESULT 159
AAZ77870/c
ID AAZ77870 standard; DNA; 10 BP.

AAZ77870;
10-APR-2000 (first entry)

Human dendritic cell SAGE tag, SEQ ID NO:298.

SAGE tag; serial analysis of gene expression; antigen-presenting cell;
APC; monocyte-derived dendritic cell; differential gene expression;
immunostimulatory cofactor; costimulatory factor; CTL;
cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

Homo sapiens.
MO9965924-A2.
23-DEC-1999.

18-JUN-1999; 99WO-US013800.
19-JUN-1998; 98US-0089833P.
19-JUN-1998; 98US-0089844P.
19-JUN-1998; 98US-0089853P.
19-JUN-1998; 98US-0089878P.
19-JUN-1998; 98US-0089919P.
19-JUN-1998; 98US-0089929P.
19-JUN-1998; 98US-0089933P.
19-JUN-1998; 98US-0089949P.

PR 19-JUN-1998; 98US--0089997P.
PR 19-JUN-1998; 98US--0089999P.
PR 19-JUN-1998; 98US--0090000P.
PR 19-JUN-1998; 98US--0090003P.
PR 19-JUN-1998; 98US--0090036P.
PR 19-JUN-1998; 98US--0090039P.
PR 19-JUN-1998; 98US--0090040P.
PR 19-JUN-1998; 98US--0090041P.
PR 19-JUN-1998; 98US--0090042P.
PR 19-JUN-1998; 98US--0090043P.
PR 19-JUN-1998; 98US--0090044P.
PR 19-JUN-1998; 98US--0090045P.
PR 19-JUN-1998; 98US--0090047P.
PR 19-JUN-1998; 98US--0090048P.
PR 19-JUN-1998; 98US--0090072P.
PR 19-JUN-1998; 98US--0090076P.
PR 19-JUN-1998; 98US--0090077P.
PR 19-JUN-1998; 98US--0090078P.
PR 19-JUN-1998; 98US--0090079P.
PR 19-JUN-1998; 98US--0090080P.
PR 08-DEC-1998; 98US--0117155P.

XX (GENZ) GENZYME CORP.
PA (ROBE) ROBERTS B.L.
PA (SHAN/) SHANKARA S.

PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.

PT Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.

PS Claim 1; Page 72; 130pp; English.

XX Sequences AA27573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
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CC expression of these genes. Detection of the dendritic cell differentially
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CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells

SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred.No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0

OY		1030	AAGGTGGG	1037
3+				
DB		10	AAGTGGG	3
RESULT	160			
AAZ79364/C				
ID	AAZ79364	standard; DNA;	10 BP.	
AC	AAZ79364;			
XX				
DT	10-APR-2000	(first entry)		
XX				
DE	Human dendritic cell SAGE tag, SEQ ID NO:1792.			
XX				
KW	SAGE tag; serial analysis of gene expression; antigen-presenting cell;			
KM	APC; monocyte-derived dendritic cell; differential gene expression;			
KM	immunostimulatory cofactor; costimulatory factor; CTL;			
KW	cyclotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.			
XX				
OS	Homo sapiens.			
XX				
PN	WO965924-A2.			
XX				
PD	23-DEC-1999.			
XX				
PF	18-JUN-1999;	99MO-US013800.		
XX				
PR	19-JUN-1998;	98US-0089833P.		
PR	19-JUN-1998;	98US-0089844P.		
PR	19-JUN-1998;	98US-0089853P.		
PR	19-JUN-1998;	98US-0089878P.		
PR	19-JUN-1998;	98US-0089931P.		
PR	19-JUN-1998;	98US-0089922P.		
PR	19-JUN-1998;	98US-0089934P.		
PR	19-JUN-1998;	98US-0089927P.		
PR	19-JUN-1998;	98US-0089999P.		
PR	19-JUN-1998;	98US-0090000P.		
PR	19-JUN-1998;	98US-0090035P.		
PR	19-JUN-1998;	98US-0090036P.		
PR	19-JUN-1998;	98US-0090039P.		
PR	19-JUN-1998;	98US-0090040P.		
PR	19-JUN-1998;	98US-0090041P.		
PR	19-JUN-1998;	98US-0090042P.		
PR	19-JUN-1998;	98US-0090043P.		
PR	19-JUN-1998;	98US-0090044P.		
PR	19-JUN-1998;	98US-0090045P.		
PR	19-JUN-1998;	98US-0090047P.		
PR	19-JUN-1998;	98US-0090048P.		
PR	19-JUN-1998;	98US-0090072P.		
PR	19-JUN-1998;	98US-0090076P.		
PR	19-JUN-1998;	98US-0090077P.		
PR	19-JUN-1998;	98US-0090078P.		
PR	19-JUN-1998;	98US-0090079P.		
PR	19-JUN-1998;	98US-0090080P.		
PR	08-DEC-1998;	98US-0111715P.		
XX				
PA	(GENZ) GENZYME CORP.			
PA	(ROBE/) ROBERTS B L.			
PA	(SHAN/) SHANKARA S.			
XX				
PI	Roberts BL, Shankara S;			
XX				
DR	WPI: 2000-106077/09.			
XX				
PT	Isolated polynucleotides differentially expressed in antigen-presenting			
PT	cells, useful in gene vaccines against cancer.			
XX				
PS	Claim 1; Page 116; 130pp; English.			
XX				
CC	Sequences AAZ77573-779709 represent SAGE (serial analysis of gene			

expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen, to modulate the genotype of an APC, to screen for agents that modulate expression of differentially expressed genes in an APC, and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy (or to stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of tumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites, secretion of T cell growth factors and secretion of chemokines for recruitment of immune effector cells

SO Sequence 10 BP; 1 A; 3 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1026 CAAGAGG 1033
|||||
8 CAGAGG 1

Db

RESULT 161
AA279551
ID AA279551 standard; DNA; 10 BP.
AC AA279551;
XX
DT 10-APR-2000 (first entry)
XX
DE Human dendritic cell SAGE tag, SEQ ID NO:1979.
XX
KW SAGE tag; serial analysis of gene expression; antigen-presenting cell; APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS Homo sapiens.
XX
PN M09965924-A2.
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013800.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089991P.
PR 19-JUN-1998; 98US-0089992P.
PR 19-JUN-1998; 98US-0089993P.

PR 19-JUN-1998; 98US-0089994P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090003P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.
PA (ROBE) ROBERTS B L.
PA (SHAN) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
DR
PT Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
PS Claim 1; Page 121; 130pp; English.

XX Sequences AA277573-279709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
XX immunostimulatory cofactor proteins which are preferentially or
XX differentially expressed in monocyte-derived dendritic cells compared
XX with monocytes. Some of the transcripts correspond to known genes or ESTs
XX (expressed sequence tags) which were previously unknown to be
XX preferentially or differentially expressed in dendritic cells, while
XX other transcripts correspond to novel genes. Antigen-presenting cell
XX (APC)-associated costimulatory factors play an important role in the
XX activation of the cytotoxic immune response, particularly against tumour
XX cells. Tumour antigen presentation via the MHC (major histocompatibility
XX complex) and subsequent recognition by T-cell receptors is alone
XX insufficient to activate a robust cytotoxic immune response that can lyse
XX the tumour cells, immunostimulatory cofactors also being required for
XX efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
XX sequences identified using the SAGE tags have several potential uses.
XX They may be used in vaccines to induce an immune response, particularly
XX against a tumour antigen, to modulate the genotype of an APC, to screen
XX for agents that modulate expression of differentially expressed genes in
XX an APC, and as hybridisation probes/amplification primers for the
XX diagnosis, prognosis and monitoring of diseases related to abnormal
XX expression of these genes. Detection of the dendritic cell differentially
XX expressed genes, or of their encoded proteins, can be used to identify
XX cells as belonging to the monocyte lineage. Cells containing these genes
XX can be used in active immunotherapy (or to stimulate production of a
XX population of antigen-specific effector cells) and vectors containing
XX them are used in gene therapy. Co-administration of tumour antigens and
XX APC-associated costimulatory factors ensures adequate antigen
XX presentation to endogenous APCs and upregulates the APCs for the
XX presentation of co-stimulatory signals, migration to T cell-rich sites,
XX secretion of T cell growth factors and secretion of chemokines for
XX recruitment of immune effector cells

SO Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1029 GAAGTGG 1036
 Db 2 GAAGTGG 9
 |||||
 RESULT 162
 AA283134/c
 ID AA283134 standard; DNA; 10 BP.
 AC AA283134;
 XX
 DT 07-APR-2000 (first entry)
 DE Metastatic breast tumour cell upregulated transcript tag #2368.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9965928-A2.
 XX
 PD 23-DEC-1999.
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 PI Roberts BL, Shankara S;
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 123; 21pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 # Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1018 CTTCTGCC 1025
 Db 10 CTTCTGCC 3
 |||||
 RESULT 163
 AA281919/c
 ID AA281919 standard; DNA; 10 BP.
 AC AA281919;
 XX
 DT 07-APR-2000 (first entry)
 DE Metastatic breast tumour cell upregulated transcript tag #1153.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9965928-A2.
 XX
 PD 23-DEC-1999.
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 PI Roberts BL, Shankara S;
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 89; 21pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX

SQ Sequence 10 BP; 1 A; 1 C; 3 G; 5 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1024 CCCAAGAA 1031
|||
8 CCCAAGAA 1
Db
RESULT 164
AAZ84193
ID AAZ84193 standard; DNA; 10 BP.
XX
AC AAZ84193;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #3427.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 150; 219pp; English.
XX
AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive

CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1030 AAGTGGG 1037
|||
3 AAGTGGG 10
Db
RESULT 165
AAZ82122
ID AAZ82122 standard; DNA; 10 BP.
XX
AC AAZ82122;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #1356.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 95; 219pp; English.
XX
AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand

CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 CC
 XX Sequence 10 BP; 0 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1018 CTCTGCC 1025
 Db 3 CTCTGCC 10
 RESULT 166
 AA283647/c
 ID AA283647 standard; DNA; 10 BP.
 XX
 AC AA283647;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #2881.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2..
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 136; 219pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific

CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 CC
 XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1028 AGAAGGTG 1035
 Db 9 AGAAGGTG 2
 RESULT 167
 AA283418/c
 ID AA283418 standard; DNA; 10 BP.
 XX
 AC AA283418;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #2652.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2..
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 130; 219pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based

CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1019 TTCTGCC 1026
Db 9 TTCTGCC 2
XX
RESULT 168
ID AA282784 standard; DNA; 10 BP.
XX
AC AA282784;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #2018.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 113; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
XX to AA286677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of

CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1029 GAAGCTCG 1036
Db 3 GAAGCTCG 10
XX
RESULT 169
ID AA285883/C
XX
AC AA285883 standard; DNA; 10 BP.
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #5117.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 194; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
XX to AA286677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially

CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences).
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 1 A; 5 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1029 GAAGTGG 1036
Db 10 GAAGTGG 3
|||||
RESULT 170
AA286535
ID AA286535 standard; DNA; 10 BP.
XX
AC AA286535;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #5769.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
FN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 210; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is

CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences).
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 2 A; 0 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1029 GAAGTGG 1036
Db 2 GAAGTGG 9
|||||
RESULT 171
AA281064
ID AA281064 standard; DNA; 10 BP.
XX
AC AA281064;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #298.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
FN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 66; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These

CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines, for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy

XX SQ Sequence 10 BP; 3 A; 0 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 GAAGGTGG 1036
|||
Db 2 GAAGGTGG 9

RESULT 172
AAZ83296
ID AAZ83296 standard; DNA; 10 BP.
XX
AC AAZ83296;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #2530.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 127; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are

CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines, for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy

XX SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1018 CTTCTGCC 1025
|||
Db 2 CTTCTGCC 9

RESULT 173
AAZ84897
ID AAZ84897 standard; DNA; 10 BP.
XX
AC AAZ84897;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #4131.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 169; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour

PS Claim 1; Page 137; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines, for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
XX
SQ Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1029 GAAGCTGG 1036
Db 1 GAAGCTGG 8
|||||
1 GAAGCTGG 8
RESULT 176
AA283851
ID AA283851 standard; DNA; 10 BP.
XX
AC AA283851;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #3085.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and

PT treatment of cancer.
XX
XX Claim 1; Page 141; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines, for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
XX
SQ Sequence 10 BP; 0 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1019 TTCTGCC 1026
Db 1 TTCTGCC 8
|||||
1 TTCTGCC 8
RESULT 177
AA279914/c
ID AA279914 standard; DNA; 10 BP.
XX
AC AA279914;
XX
DT 10-APR-2000 (first entry)
XX
DE Human dendritic cell preferentially expressed SAGE tag, SEQ ID NO:205.
XX
KW SAGE tag; serial analysis of gene expression; diagnosis;
KW differential gene expression; characterisation; targeted expression;
KW tumour; cancer; immunotherapy; ss.
XX
OS Homo sapiens.
XX
PN WO9966303-A2.
XX
PD 23-DEC-1999.
XX
PF 17-JUN-1999; 99WO-US013820.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089991P.
PR 19-JUN-1998; 98US-0089992P.
PR 19-JUN-1998; 98US-0089993P.
PR 19-JUN-1998; 98US-0089994P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.

XX New isolated polynucleotides, useful for identifying specific cell type,
PT such as cancer cell, comprises transcripts expressed in particular
PT cell types.
XX
PS Claim 11, Page 42, 94pp; English.
XX
CC The present invention describes a method of identifying the type of cell
CC in a sample, involving determining which of the sequences AAH63161-
CC AAH64724 is expressed by the cell. The transcripts described in the
CC invention are cell-type specific, cancer specific or ubiquitously
CC expressed in humans. They can also be used to screen for drugs, reduce
CC cancer specific gene expression, standardise expression and restore the
CC function of a diseased cell or tissue. The present sequence is one of the
CC transcripts described in the exemplification of the invention
XX
SQ Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1026 GAAGAGG 1033
DB 8 CAAGAGG 1
RESULT 180
AAAF69638
ID AAFA69638 standard; DNA; 10 BP.
XX
AC AAFA69638;
XX
DT 18-APR-2001 (first entry)
XX
DE Human IL4Ralpha gene probe #278.
XX
KM Polymorphism; human; interleukin 4 receptor-alpha; IL4R-alpha;
KM allergic disease; probe; ss.
XX
OS Homo sapiens.
XX
PN WO200104270-A1.
XX
PD 18-JAN-2001.
XX
PF 13-JUL-2000; 2000MO-US019094.
XX
PR 13-JUL-1999; 99US-0143435P.
XX
PA (GENA-) GENAISANCE PHARM INC.
XX
PI Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;
PI Windemuth AK;
XX
DR WPI; 2001-103078/11.
XX
PT New isolated polynucleotide useful for the identification of therapeutics
PT in allergic diseases is new.
XX
PS Disclosure; Page 46; 188pp; English.
XX
CC The present invention relates to polymorphisms of the human interleukin 4
CC receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference
CC sequence). Polynucleotides comprising polymorphic gene variants are
CC useful for therapeutic purposes. For example, where a patient may benefit
CC from expression of a particular IL4Ralpha protein isoform, an expression
CC vector encoding the isoform may be administered to the patient. It may
CC desirable to decrease or block expression of a particular IL4Ralpha
CC isogene, which may be done by turning off by transforming a targeted
CC organ, tissue or cell population with an expression vector that expresses
CC high levels of untranslatable mRNA for the isogene. Specific therapeutics
CC identified by these methods may be useful for allergic diseases. The

CC present sequence is a probe for human IL4R-alpha
XX
SQ Sequence 10 BP; 2 A; 2 C; 5 G; 1 T; 0 U; 0 Other;
XX
QY 1029 GAAGTGG 1036
DB 3 GAAGTGG 10
RESULT 181
AAAF5751
ID AAFA5751 standard; DNA; 10 BP.
XX
AC AAFA5751;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2490.
XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000MO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 88; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from 10g
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC XX
 SQ Sequence 10 BP; 4 A; 0 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1027 AAGAGGT 1034
 1 AAGAGGT 8
 Db 1 AAGAGGT 8
 RESULT 182
 AAF39472/C
 ID AAF39472 standard; DNA; 10 BP.
 XX
 AC AAF39472;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6211.
 XX
 KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; de.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 221; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate phases which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC XX
 SQ Sequence 10 BP; 1 A; 2 C; 2 G; 5 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1025 CCAAGAG 1032
 9 CCAAGAG 2
 Db 9 CCAAGAG 2
 RESULT 183
 AAF39102/C
 ID AAF39102 standard; DNA; 10 BP.
 XX
 AC AAF39102;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5841.
 XX
 KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; de.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 208; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a

CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF gene may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP, 3 A, 1 C, 4 G, 2 T, 0 U, 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1021 CTGCCCAA 1028
DB 10 CTGCCCAA 3
RESULT 184
AAFA1579/c
ID AAF41579 standard; DNA; 10 BP.
XX
AC AAF41579;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8318.
XX
KM Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
KM *Saccharomyces cerevisiae*.
OS
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 297; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP, 0 A, 3 C, 3 G, 4 T, 0 U, 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1025 CCAAGAG 1032
DB 8 CCAAGAG 1
RESULT 185
AAFA3940
ID AAF43940 standard; DNA; 10 BP.
XX
AC AAF43940;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:12079.
XX
KM Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
KM *Saccharomyces cerevisiae*.
OS
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 381; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC XX

SQ Sequence 10 BP; 0 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1019 TTCTGCC 1026
 |||||
 2 TTCTGCC 9

Db

RESULT 186
 AAF34735
 ID AAF34735 standard; DNA; 10 BP.
 XX AAF34735;
 AC
 XX 23-MAR-2001 (first entry)
 DT
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1474.
 XX
 XX Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; ds.
 XX
 OS *Saccharomyces cerevisiae*.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000MO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 52; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC XX

SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1026 CAGAGAG 1033
 |||||
 2 CAGAGAG 9

Db

RESULT 187
 AAF34229
 ID AAF34229 standard; DNA; 10 BP.
 XX AAF34229;
 AC
 XX 23-MAR-2001 (first entry)
 DT
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:368.
 XX
 XX Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; ds.
 XX
 OS *Saccharomyces cerevisiae*.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000MO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 34; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at
CC last 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention

XX SQ Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;

Query Match Best Local Similarity 40.0%; Score 8; DB 1; Length 10;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGGTG 1035

Db 3 AGAAGGTG 10

RESULT 188

AAF37328 AAF37328 standard; DNA; 10 BP.

XX AAF37328;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4067.

XX Yeast: *Saccharomyces cerevisiae*; characterisation: cell cycle; NORF;

XX not previously assigned open reading frame; nonannotated ORF; SAGE;

XX linker; PCR primer; ds.

XX *Saccharomyces cerevisiae*.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of

XX gene expression (SAGE) tags, useful for studying, monitoring and

XX affecting phases of the cell cycle.

XX Example; Page 145; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a

XX coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes
CC describing a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention

XX SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;

Query Match Best Local Similarity 40.0%; Score 8; DB 1; Length 10;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1026 CAGAAGG 1033

Db 1 CAGAAGG 8

RESULT 189

ABK24258 ABK24258 standard; DNA; 10 BP.

XX ABK24258;

XX 09-APR-2002 (first entry)

XX Retinaldehyde-binding protein 1 ASO primer extension primer #31.

XX Human; retinaldehyde-binding protein 1; ab; RLBPL; haplotype; primer;

XX genotyping; probe; autosomal recessive retinitis pigmentosa; arf; PCR;

XX chromosome 15q26; transgenic; ASO; allele specific oligonucleotide.

XX *Homo sapiens*.

XX WO200192278-A2.

XX 06-DEC-2001.

XX 23-MAY-2001; 2001WO-US017252.

XX 26-MAY-2000; 2000US-0207618P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Choi JY, Kazemi A, Koshy B;

XX WPI; 2002-122053/16.

XX New genetic variants having polymorphisms in the retinaldehyde-binding

XX protein 1 gene, useful for studying the function of and for expressing

XX RLBPL protein for use in screening drugs for treating diseases related to

XX RLBPL activity.

XX Claim 18; Page 14; 107pp; English.

XX		The invention relates to an isolated polynucleotide, which comprises
CC		genes and haplotypes of the retinoiddehyde-binding protein 1 (RBP1) gene.
CC		The polynucleotide comprises polymorphic sites in the RBP1 gene, which
CC		are referred to as PS1-24 to designate the order in which they are
CC		located in the gene. Also included are methods for haplotyping or
CC		genotyping the RBP1 gene of an individual, a method for predicting a
CC		haplotype pair for the RBP1 gene of an individual, a method for
CC		identifying an association between a trait and at least one haplotype or
CC		haplotype pair of the RBP1 gene, a composition comprising at least one
CC		genotyping oligonucleotide for detecting a polymorphism in the RBP1 gene
CC		at a PS consisting of PS1-PS24, a kit for genotyping the RBP1 gene of an
CC		individual comprising a set of oligonucleotides designed to genotype each
CC		of PS1-PS24 recombinant non-human organisms transformed or transfected
CC		with the isolated polynucleotide, where the organism expresses a RBP1
CC		protein encoded by the first nucleotide sequence or expresses an RBP1
CC		polypeptide comprising an amino acid sequence, an isolated
CC		variant of a reference sequence for the RBP1 protein or its fragment, an
CC		anti-RBP1 antibody, a method for screening for drugs targeting the
CC		isolated polypeptide, and a computer system for storing and analysing
CC		polymorphism data for the RBP1 oncogene gene. The polynucleotide
CC		comprising polymorphisms in the RBP1 gene is useful in studying the
CC		expression and function of RBP1, and in expressing RBP1 protein for use
CC		in screening candidate drugs to treat diseases related to RBP1 activity
CC		(e.g. autosomal recessive retinitis pigmentosa (arrp)). The methods and
CC		haplotypes are useful in improving the efficiency and output of several
CC		validations in the drug discovery and development process, including target
CC		validation, identifying lead compounds, and early phase clinical trials.
CC		These are also useful for designing clinical trials of candidate drugs
CC		for treating a specific condition or disease, as well as for screening
CC		compounds targeting RBP1 to treat a specific condition or disease
CC		predicted to be associated with RBP1 activity. The kit and method are
CC		useful for determining whether an individual has one of the haplotypes or
CC		haplotype pairs cited above. The transgenic animals are useful for
CC		studying expression of the RBP1 isogenes in vivo, for in vivo screening
CC		and testing of drugs targeted against RBP1 protein, for testing the
CC		efficacy of therapeutic agents and compounds for retinal diseases in a
CC		biological system. The gene for RBP1 is located on chromosome 15q26. The
CC		present sequence is an allele specific oligonucleotide (ASO) PCR primer
CC		for amplifying a nucleic acid containing a polymorphic RBP sequence,
CC		using the primer extension method
SQ		Sequence 10 BP; 3 A; 4 C; 2 G; 1 T; 0 U; 0 Other;
XY		
Dd		
	Query Match	40.0%; Score 8; DB 1; Length 10;
	Best Local Similarity	100.0%; Pred. No. 66;
	Matches 8; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
	1023 GCCCAGGA 1030	
	1 GCCCAGA 8	
RESULT 190		
ABK23697	ID	ABK23697 standard; DNA; 10 BP.
XX	AC	ABK23697;
XX	DT	09-APR-2002 (first entry)
XX	DE	Transcript tag DNA sequence #286 induced or suppressed by N-myc.
KM		Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
KM		spread; myc target; myc tag; SAGE; serial analysis of gene expression;
XX		myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
OS		Homo sapiens.
XN		W0200185941-A2.
DD		15-NOV-2001.

XX	PF	11-MAY-2001; 2001WO-NL0000361.
XX	PR	11-MAY-2000; 2000EP-00201698.
XX	PR	29-JUN-2000; 2000EP-00202284.
XX	PA	(UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
XX	PI	Versleeg R, Caron HN;
XX	DR	WPI, 2002-066603/09.
XX	PT	A new nucleic acid library of myc-dependent downstream genes capable of supporting a neoplastic characteristic of cancer is useful to find new therapies and diagnoses for cancer.
XX	PS	Disclosure; Page 57; 69pp; English.
XX	CC	The present invention relates to a nucleic acid library comprising myc-dependent downstream genes or their functional fragments essentially capable of supporting a neoplastic character of cancer such as growth, invasion or spread. These myc target or tag sequences are identified by SAGE (serial analysis of gene expression). The library is useful to find new diagnoses and treatments for cancer. The invention is also useful to enhance production of recombinant proteins in a production system with high expression of endogenous or transfected myc oncogenes. ABR23412-ABR23488 represent transcript tag DNA sequences that are activated or repressed by N-myc in human neuroblastoma
XX	CC	Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;
XX	CC	Query Match 40.0%; Score 8; DB 1; Length 10;
XX	CC	Best Local Similarity 100.0%; Pred. No. 66;
XX	CC	Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX	OY	1018 CTTCTGCC 1025
XX	DB	2 CTTCTGCC 9
XX	RESULT	191
XX	AA	AA16818/c
XX	ID	AA16818 standard; DNA; 10 BP.
XX	AC	AA16818;
XX	DT	14-FEB-2002 (first entry)
XX	DE	Human apolipoprotein C1 (APOC1) gene PCR primer #4.
XX	KW	Human; apolipoprotein C1; APOC1; single nucleotide polymorphism; haplotyping; haplotype pair; hypercholesterolemia; noctropic; SDAT; ss;
XX	KW	herile dementia of Alzheimer's type; neuroprotective; antiplaemic; PCR primer.
XX	OS	Homo sapiens.
XX	PN	WO200177129-A2.
XX	PD	18-OCT-2001.
XX	PF	10-APR-2001; 2001WO-US011808.
XX	PR	11-APR-2000; 2000US-0196545P.
XX	PA	(GENA-) GENAISSANCE PHARM INC.
XX	PI	Bentivegna SC, Chew A, Choi JY, Koshy B, Stephens JC;
XX	DR	WPI; 2002-041286/05.
XX	PT	New haplotypes of the human apolipoprotein C1 gene, useful to detect and find treatment for disease associated with its activity such as

PT hypercholesterolemia and Alzheimer's disease.
XX
XX Claim 18; Page 13; 51pp; English.
XX
CC The invention relates to single nucleotide polymorphisms in the human
CC apolipoprotein C1 (APOC1) gene. Haplotyping the APOC1 gene of an
CC individual, comprises determining if the individual has one of the APOC1
CC haplotypes or haplotype pairs fully defined in the specification.
CC Genotyping the APOC1 gene of an individual, comprises determining the
CC identity of the nucleotide pair at one or more polymorphic sites and
CC predicting a haplotype pair for the APOC1 gene of an individual by
CC enumerating all possible haplotype pairs which are consistent with the
CC genotype, comparing the possible haplotype pairs to the data detailed in
CC the specification and assigning a haplotype pair to the individual that
CC is consistent with the data. Identifying an association between a trait
CC and a haplotype or haplotype pair of the APOC1 gene, comprises comparing
CC the frequency of the haplotype/haplotype pair in a population exhibiting
CC the trait with that of a reference population, where the
CC haplotype/haplotype pair is one described in the specification and a
CC higher frequency in the trait population indicates the trait is
CC associated with the haplotype. The sequences and methods of the invention
CC are used to diagnose and develop treatment for disease associated with
CC APOC1 activity, such as hypercholesterolemia and senile dementia of
CC Alzheimer's type (SDAT). This sequence represents a PCR primer used for
CC detecting human APOC1 DNA polymorphisms
XX
SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1029 GAAGGTGG 1036
Db 9 GAAGGTGG 2
RESULT 192
ADCO9948/c
ID ADCO9948 standard; DNA; 10 BP.
XX
XX ADCO9948;
XX
XX 18-DEC-2003 (first entry)
XX
DE Optical nucleic acid sensor molecule-related oligo, SEQ ID 360.
XX
XX Nucleic acid sensor molecule; ligase; cis-hammerhead; protein kinase; ds.
XX
XX Synthetic.
XX
XX WO2003014375-A2.
XX
XX 20-FEB-2003.
XX
XX 09-AUG-2002; 2002WO-US025319.
XX
XX 09-AUG-2001; 2001US-0311378P.
XX
XX 21-AUG-2001; 2001US-0313932P.
XX
XX 13-SEP-2001; 2001US-00952680.
XX
XX 13-NOV-2001; 2001US-0338186P.
XX
XX 18-JAN-2002; 2002US-0349595P.
XX
XX 13-MAR-2002; 2002US-0364486P.
XX
XX 25-MAR-2002; 2002US-0367991P.
XX
XX 04-APR-2002; 2002US-0369887P.
XX
XX 01-MAY-2002; 2002US-0376744P.
XX
XX 31-MAY-2002; 2002US-0385097P.
XX
XX (ARCH-) ARCHEMIX CORP.
XX
XX Stanton M, Epstein D, Hamaguchi N, Kurz M, Keefe T, Wilson C;
XX
XX Grate D, Marshall KA, McCauley T, Kurz J;

DR WPI; 2003-300534/29.
XX
XX Nucleic acid sensor molecule, for identifying/detecting protein kinase in
XX a sample, comprises a target modulation domain which recognizes a target
XX molecule, a linker domain, a catalytic domain, and an optical signal
XX generator.
XX
XX Example 39; SEQ ID NO 360; 423pp; English.
XX
XX The present invention relates to nucleic acid sensor molecules (I), which
XX comprise a target modulation domain that recognizes a target molecule
XX (TM), a linker domain, a catalytic domain, and an optical signal
XX generating unit. The catalytic domain comprises a ligase or cis-
XX hammerhead. (I) are useful for identifying or detecting TM in a sample,
XX preferably a protein kinase in a sample. Target molecules include
XX proteins, post-translationally modified forms of proteins, peptides,
XX nucleic acids, oligosaccharides, nucleotides, metabolites, drugs, toxins,
XX biohazards, ions, carbohydrates, polysaccharides, hormones, receptors,
XX antigens, antibodies, viruses, metabolites, co-factors, drugs, dyes,
XX nutrients, growth factors, cAMP, cGMP, protein kinase,
XX phosphorylated protein kinase, extracellular signal regulated kinase
XX (ERK), a component or product of mitogen activated protein (MAP) kinase
XX pathway, a MAP kinase pathway associated protein, an extracellular
XX component of MAP kinase pathway, a component of ERK1/2 MAP, JNK MAP or
XX p38 MAP kinase pathway, an endogenous form of MAP kinase (MEK), MAP
XX kinase kinase, or MAP kinase (MEKK), or RAF kinase, Ras protein,
XX phosphatase, GTP binding protein, G-protein coupled receptor (GPCR),
XX cytokine, growth factor, cellular metabolite, small molecule or lysosome.
XX (I) are also useful for identifying a modulator of protein kinase
XX activity. The present sequence was used to illustrate the invention.
SQ Sequence 10 BP; 0 A; 1 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1024 CCCAGGAA 1031
Db 9 CCCAGGAA 2
RESULT 193
AD113743
ID AD113743 standard; DNA; 10 BP.
XX
XX AD113743;
XX
XX 22-APR-2004 (first entry)
XX
DE Cytoplasmic tumour endothelial marker standard tag SEQ ID NO:118.
XX
XX tumour endothelial marker; TEM; endothelial cell regulation;
XX neoangiogenesis inhibition; neoangiogenesis screening;
XX neoangiogenesis promotion; neoangiogenesis; tumour; wound healing;
XX cytostatic; vulnerary; human; standard tag; ss.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX WO2004005883-A2.
XX
XX 15-JAN-2004.
XX
XX 02-JUL-2003; 2003WO-US016250.
XX
XX 02-JUL-2002; 2002US-0393023P.
XX
XX 01-APR-2003; 2003US-0458964P.
XX
XX (UYJO) UNIV JOHNS HOPKINS.
XX
XX St Croix B, Kinzler KW, Vogelstein B;

DR WPI; 2004-142995/14.
 XX
 PT Use of tumor endothelial marker proteins for inhibiting neoangiogenesis,
 PT screening for neoangiogenesis, promoting neoangiogenesis, identifying
 PT candidate drugs for treating tumors or promoting wound healing.
 XX
 PS Disclosure; SEQ ID NO 118; 113pp; English.
 XX
 CC The present invention describes the use of tumour endothelial marker
 CC (TEM) proteins for identifying a ligand involved in endothelial cell
 CC regulation, inhibiting neoangiogenesis, screening for neoangiogenesis,
 CC promoting neoangiogenesis, identifying candidate drugs for treating
 CC tumours or promoting wound healing or identifying endothelial cells. Also
 CC described: (1) identification of a ligand involved in endothelial cell
 CC regulation; (2) inhibiting neoangiogenesis; (3) promoting neoangiogenesis
 CC in a patient; (4) screening for neoangiogenesis in a patient; (5)
 CC and (6) identifying endothelial cells. TEM proteins have cytoskeletal and
 CC vulneryary activites. The TEM proteins are useful for identifying a
 CC ligand involved in endothelial cell regulation, inhibiting
 CC neoangiogenesis, screening for neoangiogenesis, promoting
 CC neoangiogenesis, identifying candidate drugs for treating tumours or
 CC promoting wound healing or identifying endothelial cells. The present
 CC sequence represents a cytoplasmic tumour endothelial marker standard tag
 CC oligonucleotide, which is used in the exemplification of the present
 CC invention.
 CC
 XX
 SQ Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1018 CTTCTGCC 1025
 Db 2 CTTCTGCC 9
 RESULT 194
 ADK13070
 ID ADK13070 standard; DNA; 10 BP.
 XX
 AC ADK13070;
 XX
 DT 20-MAY-2004 (first entry)
 XX
 DE Human glioma endothelial marker (GEM) standard tag SEQ ID NO:248.
 XX
 KW glioma; brain tissue; neoplastic; glioma endothelial marker; GEM;
 KW anticancer; anti-glioma; immune response; cytostatic;
 KW multi-drug sensitive glioma; human; standard tag; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 OS
 XX
 PN WO2004016758-A2.
 XX
 PD 26-FEB-2004.
 PD
 PF 15-AUG-2003; 2003WO-US025614.
 PF
 PR 15-AUG-2002; 2002US-0403390P.
 PR 01-APR-2003; 2003US-0458978P.
 PR
 XX
 PA (GENZ) GENZYME CORP.
 PA (UVCJ) UNIV JOHNS HOPKINS.
 PI
 PI Madden SI, Wang CJ, Cook BP, Latcera J, Walter K;
 DR WPI; 2004-247973/23.
 DR
 XX
 PT Diagnosing glioma by detecting expression product of any one of 255
 PT genes, glioma endothelial markers, in brain tissue sample suspected of

PT being neoplastic, and comparing the expression with expression in normal
 PT brain tissue sample.
 XX
 PS Example 2; SEQ ID NO 248; 113pp; English.
 XX
 CC The present invention describes a method (M1) for aiding in the diagnosis
 CC of glioma. (M1) involves detecting an expression product of at least one
 CC gene (I) in a first brain tissue sample (T) suspected of being
 CC neoplastic, where (I) is chosen from any one of 255 genes (glioma
 CC endothelial markers (GEMs)) as given in specification, and comparing the
 CC expression of (I) in (T) with expression of (I) in a second normal brain
 CC tissue sample (R), where increased expression of (I) in (T) relative to
 CC (R), identifies (T) as likely to be neoplastic. Also described: (1)
 CC treating (M2) glioma involves contacting cells of the glioma with an
 CC antibody that specifically binds to an extracellular epitope; (2)
 CC identifying (M3) a test compound as potential anticancer or anti-glioma
 CC drug involves contacting a test compound with the cell which expresses
 CC (1), monitoring an expression product of the at least one gene and
 CC identifying test compound as a potential anticancer drug if it decreases
 CC the expression of at least one gene; (3) identifying (M4) a test compound
 CC as potential anticancer or anti-glioma drug involves contacting a test
 CC compound with the cell which expresses mRNA of at least one gene
 CC identified by a tag as described above, monitoring mRNA of the gene, and
 CC identifying the test compound as a potential anticancer drug if it
 CC decreases the expression of at least one gene; and (4) inducing (M5) an
 CC immune response to glioma involves administering to a mammal, a protein
 CC or (I). (I) have cytostatic activities, and can be used to trigger immune
 CC destruction of glioma cells, and as immune response inducers. (M1) is
 CC useful for aiding in diagnosing glioma. (M2) is useful for treating multi-
 CC drug sensitive glioma in a human. (M5) is useful for inducing an immune
 CC response to a glioma in a mammal having glioma or in a mammal who has had
 CC a glioma surgically removed. The present sequence represents a human GEM
 CC standard tag oligonucleotide, which is used in the exemplification of the
 CC present invention.
 CC
 XX
 SQ Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1018 CTTCTGCC 1025
 Db 3 CTTCTGCC 10
 RESULT 195
 ADM57243
 ID ADM57243 standard; DNA; 10 BP.
 XX
 AC ADM57243;
 XX
 DT 03-JUN-2004 (first entry)
 XX
 DE A thaliana herbicide target related adaptor sequence #2.
 XX
 KW ss; adaptor; plant; herbicide; creese.
 XX
 OS Synthetic.
 OS
 XX
 PN WO2004022780-A2.
 PN
 PD 18-MAR-2004.
 PD
 PF 30-JUL-2003; 2003WO-EP008393.
 PF
 PR 16-AUG-2002; 2002DE-01038434.
 PR
 XX
 PA (META-) METANOMICS GMBH & CO KGAA.
 PA
 PI Plesch G, Blau A, Daeschner K;
 DR WPI; 2004-315575/29.
 DR

XX Identifying herbicides and growth regulators, comprises testing compounds
 PT for activity against specific nucleic acid or encoded proteins, also
 PT preparation of herbicide-tolerant plants.

XX Example 2; Page 70; 205pp; German.

XX The present invention relates to a method for identifying substances with
 CC herbicidal activity from their ability to reduce or block the expression
 CC or activity of specific genes or nucleic acids or the amino acid
 CC sequences encoded by them. In particular, the sequences are from
 CC Arabidopsis thaliana. The method can identify herbicides with species-
 CC independent activity and can be used to screen combinatorial libraries.
 CC The present sequence is an adaptor sequence used in the exemplification
 CC of the invention.

XX SQ Sequence 10 BP; 3 A; 5 C; 1 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 66;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1021 CTGCCCAA 1028

DB 3 CTGCCCAA 10

Search completed: December 3, 2004, 11:40:34
 Job time : 1 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:41:56 ; Search time 0.001 Seconds

(without alignments)
14.120 Million cell updates/sec

Title: us-10-024-369-3

Perfect score: 20
Sequence: 1 cttctgcacagaagtggtg 20Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 36 seqs, 353 residues

Total number of hits satisfying chosen parameters: 72

Minimum DB seq length: 8
Maximum DB seq length: 50Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 36 summaries

Database: rmlnb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	9	45.0	11	1	US-09-862-847-15
C 2	9	45.0	12	1	US-09-862-844-6
C 3	9	45.0	12	1	US-09-862-844-8
C 4	8.4	42.0	10	1	US-08-410-7798-47
C 5	8.4	42.0	10	1	US-09-508-753B-225
6	8.4	42.0	10	1	PCT-US95-04477-47
7	8.4	42.0	11	1	US-08-401-512-15
8	8.4	42.0	11	1	US-08-481-658B-73
9	8.4	42.0	11	1	US-08-477-504A-73
10	8.4	42.0	11	1	US-08-486-756A-73
11	8.4	42.0	11	1	US-08-485-862B-73
12	8.4	42.0	11	1	US-08-787-739-73
13	8.4	42.0	11	1	US-08-487-077A-73
14	8.4	42.0	11	1	US-08-485-863A-73
15	8.4	42.0	11	1	US-08-485-049D-73
16	8.4	42.0	11	1	US-09-178-115-73
17	8.4	42.0	11	1	US-09-177-776-73
18	8.4	42.0	11	1	US-09-772-719B-73
19	8	40.0	10	1	US-08-049-283A-31
20	8	40.0	10	1	US-08-049-283A-33
21	8	40.0	10	1	US-09-508-753B-70
22	7.4	37.0	9	1	US-08-437-013-6
23	7.4	37.0	9	1	US-09-275-506A-6
24	7.4	37.0	9	1	US-09-639-576-2
25	7	35.0	8	1	US-08-593-345B-19
26	7	35.0	8	1	US-08-859-954-55
27	7	35.0	8	1	US-08-859-954-248
28	7	35.0	8	1	US-08-859-954-249
29	7	35.0	8	1	US-08-859-954-267
30	7	35.0	8	1	US-08-859-954-406
31	7	35.0	8	1	US-08-859-954-540
32	7	35.0	8	1	US-08-855-372B-6
33	7	35.0	8	1	US-09-498-851-6

ALIGNMENTS

C 34	7	35.0	9	1	US-08-068-945A-36	Sequence 36, Appl
C 35	7	35.0	9	1	US-08-442-806-36	Sequence 36, Appl
C 36	7	35.0	9	1	US-09-063-450-10	Sequence 10, Appl

RESULT 1
US-09-862-847-15/c
; Sequence 15, Application US/09862847
; Patent No. 6593111
; GENERAL INFORMATION:
; APPLICANT: Baric, Ralph S.
; APPLICANT: Boyd, Yount
; TITLE OF INVENTION: DIRECTION ASSEMBLY OF LARGE VIRAL GENOMES AND CHROMOSOMES
; FILE REFERENCE: 5470.270
; CURRENT APPLICATION NUMBER: US/09/862,847
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/206,537
; PRIOR FILING DATE: 2000-05-21
; PRIOR APPLICATION NUMBER: US 60/285,320
; PRIOR FILING DATE: 2001-04-20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1025 CCAGAGAG 1033
Db 10 CCAGAGAG 2

RESULT 2
US-09-862-844-6/c
; Sequence 6, Application US/09862844
; Patent No. 6583986
; GENERAL INFORMATION:
; APPLICANT: Cai, Hong
; APPLICANT: Keller, Richard
; APPLICANT: Warner, James
; APPLICANT: Goodwin, Peter
; TITLE OF INVENTION: RAPID HAPLOTYPE BY SINGLE MOLECULE DETECTION
; FILE REFERENCE: S-94,652
; CURRENT APPLICATION NUMBER: US/09/862,844
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 12
; TYPE: DNA
; ORGANISM: PNA probe MLCy5P
US-09-862-844-6

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1023 GCCCAGAA 1031
Db 10 GCCCAGAA 2

RESULT 3

US-09-862-844-8/c
; Sequence 8, Application US/09862844
; Patent No. 6583986
; GENERAL INFORMATION:
; APPLICANT: Cai, Hong
; APPLICANT: Keller, Richard
; APPLICANT: Warner, James
; APPLICANT: Goodwin, Peter
; TITLE OF INVENTION: RAPID HAPLOTYPING BY SINGLE MOLECULE DETECTION
; FILE REFERENCE: S-94, 652
; CURRENT APPLICATION NUMBER: US/09/862,844
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 12
; TYPE: DNA
; ORGANISM: LNA probe MLCy5L
US-09-862-844-8

Query Match 45.0%; Score 9; DB 1; length 12;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1023 GCCCAGAA 1031
Db 10 GCCCAGAA 2

RESULT 4
US-08-410-779B-47
; Sequence 47, Application US/08410779B
; Patent No. 5814517
; GENERAL INFORMATION:
; APPLICANT: SEIDEL, H. MARTI
; APPLICANT: LAMB, J. PETER
; TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS
; TITLE OF INVENTION: RESPONSIVE TO CYTOKINES AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 166
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LIGAND PHARMACEUTICALS INCORPORATED
; STREET: 9993 TONNE CENTRE DRIVE
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: US
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/410,779B
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/228,935
; FILING DATE: 14-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: JURGENSEN, THOMAS E
; REGISTRATION NUMBER: 34,195
; REFERENCE/DOCKET NUMBER: 016-0013A.US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 550-7675
; TELEFAX: (619) 535-3906
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULAR TYPE: other nucleic acid
; DESCRIPTION: /desc = "OTHER NUCLEIC ACID,"

DESCRIPTION: SYNTHETIC DNA"
US-08-410-779B-47

Query Match 42.0%; Score 8.4; DB 1; length 10;
Best Local Similarity 90.0%; Pred. No. 6.8;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
Db 1 TTCCCAAGAA 10

RESULT 5
US-09-508-753B-225/c
; Sequence 225, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: AKITA, SHIMAMOTO
; APPLICANT: YASUHIRO FURUICHI
; APPLICANT: YUKO SHIBATA
; APPLICANT: HIROKO FUNAKI
; APPLICANT: Eiji OHARA
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/Hg
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 225
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-225

Query Match 42.0%; Score 8.4; DB 1; length 10;
Best Local Similarity 90.0%; Pred. No. 6.8;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCAAGA 1030
Db 10 CTGCTCAGA 1

RESULT 6
PCT-US95-04477-47
; Sequence 47, Application PCT/US9504477
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS RESPONSIVE TO
; TITLE OF INVENTION: CYTOKINES AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 165
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04477
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/228,935
; FILING DATE: 14-APR-1994
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
DESCRIPTION: SYNTHETIC DNA"
PCT-US95-04477-47

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 6.8;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 TGCCAGAA 1031
|||
1 TTCCCAAGAA 10

RESULT 7
US-08-401-512-15
Sequence 15, Application US/08401512
Patent No. 559673
GENERAL INFORMATION:

APPLICANT: Keating, Mark T.
APPLICANT: Curran, Mark E.
APPLICANT: Wang, Qing
TITLE OF INVENTION: Long QT Syndrome Genes
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3917

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/401,512
FILING DATE: 09-MAR-1995
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Saxe, Stephen A.
REGISTRATION NUMBER: 38,609
REFERENCE/DOCKET NUMBER: 19780-113879
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-8300
TELEFAX: 202-962-848
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-401-512-15

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
|||
1 AGCAGTGGG 10

RESULT 8
US-08-481-658B-73
Sequence 73, Application US/08481658B
Patent No. 5955075
GENERAL INFORMATION:

APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,658B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727

INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-481-658B-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
|||
1 AGCAGTGGG 10

RESULT 9
US-08-477-504A-73
Sequence 73, Application US/08477504A
Patent No. 5972353
GENERAL INFORMATION:

APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/477,504A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-477-504A-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1028 AGAAGTGGG 1037
|||
Db 1 AGCAGGTGGG 10

RESULT 10

US-08-486-756A-73

Sequence 73, Application US/08486756A
Patent No. 5981711
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,756A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-486-756A-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1028 AGAAGTGGG 1037
|||
Db 1 AGCAGGTGGG 10

RESULT 11

US-08-485-862B-73

Sequence 73, Application US/08485862B
Patent No. 5989838
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,862B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-485-862B-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1028 AGAAGTGGG 1037
|||
Db 1 AGCAGGTGGG 10

RESULT 12

US-08-787-739-73

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; Sequence 73, Application US/08787739
; Patent No. 6027887
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 96
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 369 Pine Street, Suite 610
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/787,739
; FILING DATE: 24-JAN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,049
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/486,756
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,863
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/481,658
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/477,504
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,862
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,863
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/487,077
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-981-2034
; TELEFAX: 415-981-0332
; INFORMATION FOR SEQ ID NO: 73:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; DESCRIPTION: 5' donor consensus splice sequence
; US-08-787-739-73

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

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; Patent No. 6069242
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,077A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/260,190
; FILING DATE: 15-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.3H
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-435-2034
; TELEFAX: 415-435-0727
; INFORMATION FOR SEQ ID NO: 73:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; DESCRIPTION: 5' donor consensus splice sequence
; US-08-487-077A-73

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1028 AGAAGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 13
US-08-487-077A-73
; Sequence 73, Application US/08487077A
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```
RESULT 14
US-08-485-863A-73
; Sequence 73, Application US/08485863A
; Patent No. 6093548
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,863A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3G
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-485-863A-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 15
US-08-485-049D-73
Sequence 73, Application US/08485049D
Patent No. 6204370
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 369 Pine Street
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,049D
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-485-049D-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 16
US-09-178-115-73
Sequence 73, Application US/09178115
Patent No. 6297041
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
FILE REFERENCE: D-0021.5A
CURRENT APPLICATION NUMBER: US/09/178,115
CURRENT FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: 09/177,776
EARLIER FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: 08/787,739
EARLIER FILING DATE: 1997-01-24
EARLIER APPLICATION NUMBER: 08/485,049
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/486,756
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/477,504
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/481,658
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,862
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,863
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/487,077
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/260,190
EARLIER FILING DATE: 1994-06-15
EARLIER APPLICATION NUMBER: 08/177,093
EARLIER FILING DATE: 1993-12-30
EARLIER APPLICATION NUMBER: 07/964,589
EARLIER FILING DATE: 1992-10-21
EARLIER APPLICATION NUMBER: PV-709-92
EARLIER FILING DATE: 1992-03-11
NUMBER OF SEQ ID NOS: 116
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 73
LENGTH: 11
TYPE: DNA
ORGANISM: HUMAN
US-09-178-115-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 17
US-09-177-776-73

Sequence 73, Application US/0917776A
Patent No. 6297051
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
TITLE OF INVENTION: MN Gene and Protein
FILE REFERENCE: D-0021.5A
CURRENT APPLICATION NUMBER: US/09/177,776A
EARLIER FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: 08/787,739
EARLIER FILING DATE: 1997-01-24
EARLIER APPLICATION NUMBER: 08/485,049
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/486,756
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/477,504
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/481,658
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,862
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,863
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/487,077
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/260,190
EARLIER FILING DATE: 1994-06-15
EARLIER APPLICATION NUMBER: 08/177,093
EARLIER FILING DATE: 1993-12-30
EARLIER APPLICATION NUMBER: 07/964,589
EARLIER FILING DATE: 1992-10-21
EARLIER APPLICATION NUMBER: PV-709-92
EARLIER FILING DATE: 1992-03-11
NUMBER OF SEQ ID NOS: 116
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 73
LENGTH: 11
TYPE: DNA
ORGANISM: HUMAN
US-09-177-776-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAGGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 18
US-09-772-719B-73
Sequence 73, Application US/09772719B
Patent No. 6770438
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 465 California Street, Suite 450
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/772,719B
FILING DATE: 30-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3A-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
SEQUENCE DESCRIPTION: SEQ ID NO: 73:
US-09-772-719B-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAGGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 19
US-08-049-283A-31
Sequence 31, Application US/08049283A
Patent No. 5502176
GENERAL INFORMATION:
APPLICANT: Tenen, Daniel G.
APPLICANT: Pahl, Helke L.
TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Willetta Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/049,283A
FILING DATE: 14-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/020,465
FILING DATE: 19-FEB-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/837,776
FILING DATE: 13-FEB-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: BIH91-03'A
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-049-283A-31

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1018 TTCTGCC 1025
Db 1 TTCTGCC 8

RESULT 20
US-08-049-283A-33
Sequence 33, Application US/08049283A
Patent No. 5502176
GENERAL INFORMATION:
APPLICANT: Tenen, Daniel G.
APPLICANT: Pahl, Heike L.
APPLICANT: Burr, Timothy C.
TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millitia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/049,283A
FILING DATE: 14-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/020,465
FILING DATE: 19-FEB-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/837,776
FILING DATE: 13-FEB-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: B1H91-03'A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-049-283A-33

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1019 TTCTGCC 1026
Db 3 TTCTGCC 10

RESULT 21
US-09-508-753B-70
Sequence 70, Application US/09508753B
Patent No. 6544736
GENERAL INFORMATION:
APPLICANT: Akira SHIMAMOTO
APPLICANT: Yasuniro FURUICHI
APPLICANT: YUKO SHIBATA
APPLICANT: HIROKO FUNAKI
APPLICANT: Eiji OHARA
APPLICANT: Masanori WATAHITI
TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
FILE REFERENCE: 00162/HG
CURRENT APPLICATION NUMBER: US/09/508,753B
CURRENT FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: JP 9/270324
PRIOR FILING DATE: 1997-09-18
NUMBER OF SEQ ID NOS: 472
SEQ ID NO 70
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-70

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1019 TTCTGCC 1026
Db 3 TTCTGCC 10

RESULT 22
US-08-437-013-6
Sequence 6, Application US/08437013
Patent No. 5932220
GENERAL INFORMATION:
APPLICANT: Barbour, Alan G.
APPLICANT: Carter, Carol
TITLE OF INVENTION: Diagnostic Tests for a New Spirochete, Borrelia
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: US
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/437,013
FILING DATE: 08-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mayfield, Denise L.
REGISTRATION NUMBER: 33,732
REFERENCE/DOCKET NUMBER: UTSK:276/MAY
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-300

```

; TELEFAX: 512/747-7577
; TELEX: NA
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "DNA"
US-08-437-013-6

Query Match      37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 50;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1020 TCTGCCCAA 1028
Db      1 TCTGCTCAA 9

RESULT 23
US-09-275-506A-6
; Sequence 6, Application US/09275506A
; Patent No. 6617441
; GENERAL INFORMATION:
; APPLICANT: BARBOUR, ALAN G.
; APPLICANT: CARTER, CAROL
; TITLE OF INVENTION: A DIAGNOSTIC TEST FOR INFECTION WITH A SPIROCHETE BORNE
; FILE REFERENCE: UTSK:352
; CURRENT APPLICATION NUMBER: US/09/275,506A
; CURRENT FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 08/437,013
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
US-09-275-506A-6

Query Match      37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 50;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1020 TCTGCCCAA 1028
Db      1 TCTGCTCAA 9

RESULT 24
US-09-639-576-2
; Sequence 2, Application US/09639576
; Patent No. 6720167
; GENERAL INFORMATION:
; APPLICANT: Federici, Brian A.
; APPLICANT: Bideshi, Dennis K.
; APPLICANT: Park, Hyun-Woo
; APPLICANT: Wirth, Margaret C.
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Improved Insecticidal Bacteria, and Methods for Making
; TITLE OF INVENTION: and Using Them
; FILE REFERENCE: 023070-113500US
; CURRENT APPLICATION NUMBER: US/09/639,576
; CURRENT FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
```

```

; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: STAB-SD from
; OTHER INFORMATION: Bacillus thuringiensis cry3B gene
US-09-639-576-2

Query Match      37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 50;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1029 GAAGTGGC 1037
Db      1 GAAGGGCG 9

RESULT 25
US-08-593-345B-19
; Sequence 19, Application US/08593345B
; Patent No. 5851772
; GENERAL INFORMATION:
; APPLICANT: Mirzabekov, Andrei D
; APPLICANT: Lygov, Yuriy P
; APPLICANT: Shick, Valentine V
; APPLICANT: Dubiley, Svetlana A
; TITLE OF INVENTION: A Microchip Method for the Enrichment of
; TITLE OF INVENTION: Specific DNA Sequences.
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CHERSKOV & FLAVNIK
; STREET: 20 N. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage
; OPERATING SYSTEM: Macintosh 7.1
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/593,345B
; FILING DATE: 29-JAN-96
; PRIOR APPLICATION DATA: No. 5851772e
; ATTORNEY/AGENT INFORMATION:
; NAME: Cherskov, Michael J.
; REGISTRATION NUMBER: 33,664
; REFERENCE/DOCKET NUMBER: ANU-IN-95-029+30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 621-1330
; TELEFAX: (312) 621-0088
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 8 bases
;   TYPE: nucleic acid
;   STRANDEDNESS: No. 5851772 Applicable
;   TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; FEATURE:
; NAME/KEY: No. 5851772e
; LOCATION: 1-8
; IDENTIFICATION METHOD: Similarity with known sequences.
; OTHER INFORMATION: Complementarity with primer of
; OTHER INFORMATION: exons to a-thalassemia gene.
US-08-593-345B-19

Query Match      35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1024 CCCAAGA 1030
Db      1 TCTGCTCAA 9
```

Db 1 CCCAGA 7

RESULT 26

US-08-859-954-55

Sequence 55, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/859,954

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/632,782

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Paul, Thomas D.

REGISTRATION NUMBER: 32,714

REFERENCE/DOCKET NUMBER: D-5900

TELECOMMUNICATION INFORMATION:

TELEPHONE: 713/651-5325

TELEFAX: 713/651-5246

INFORMATION FOR SEQ ID NO: 55:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "oligonucleotide"

HYPOTHETICAL: YES

ANTI-SENSE: YES

US-08-859-954-55

Query Match 35.0%; Score 7; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 57;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1022 TGCCCA 1028

Db 2 TGCCCA 8

RESULT 27

US-08-859-954-248

Sequence 248, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/859,954

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/632,782

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Paul, Thomas D.

REGISTRATION NUMBER: 32,714

REFERENCE/DOCKET NUMBER: D-5900

TELECOMMUNICATION INFORMATION:

TELEPHONE: 713/651-5325

TELEFAX: 713/651-5246

INFORMATION FOR SEQ ID NO: 248:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "oligonucleotide"

HYPOTHETICAL: YES

ANTI-SENSE: YES

US-08-859-954-248

Query Match 35.0%; Score 7; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 57;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 GAAGTG 1035

Db 1 GAAGTG 7

RESULT 28

US-08-859-954-249

Sequence 249, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/859,954

FILING DATE:

CLASSIFICATION:

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 249:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-249

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1029 GAAGCTG 1035
DB      1 GAAGCTG 7

RESULT 29
US-08-859-954-267
; Sequence 267, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 267:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
;

```

```

; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-267

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1027 AAGAGG 1033
DB      2 AAGAGG 8

RESULT 30
US-08-859-954-406
; Sequence 406, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 406:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-406

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1022 TGCCCA 1028
DB      2 TGCCCA 8

```

```
RESULT 31
US-08-859-954-540
; Sequence 540, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramtin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 540:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-540

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1030 AAGGTGG 1036
Db       1 AAGGTGG 7

RESULT 32
US-08-855-372B-6
; Sequence 6, Application US/08855372B
; Patent No. 6090549
; GENERAL INFORMATION:
; APPLICANT: Mirzabekov, Andrei D
; APPLICANT: Parinov, Sergei V
; APPLICANT: Barsky, Victor E
; APPLICANT: Kirillov, Eugene V
; APPLICANT: Dubiley, Svetlana A
; TITLE OF INVENTION: Use of Continuous/Contiguous Stacking Hybridization as a Diagnost
; NUMBER OF SEQUENCES: 88
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CHERSKOV & FLAYNIK
```

```
STREET: 20 N. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage
; COMPUTER: PC
; OPERATING SYSTEM: Microsoft Windows 98
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/855,372B
; FILING DATE: 13-MAY-97
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. 08/587,332
; FILING DATE: 16-JAN-96
; ATTORNEY/AGENT INFORMATION:
; NAME: Cherskov, Michael J.
; REGISTRATION NUMBER: 33,664
; REFERENCE/DOCKET NUMBER: ANL-IN-95-027
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 621-1330
; TELEFAX: (312) 621-0088
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 bases
; TYPE: nucleic acid
; STRANDEDNESS: No. 6090549 Applicable
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: Yes
; US-08-855-372B-6

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1021 CTGCCCA 1027
Db       1 CTGCCCA 7

RESULT 33
US-09-498-851-6
; Sequence 6, Application US/09498851
; Patent No. 6440671
; GENERAL INFORMATION:
; APPLICANT: Mirzabekov, Andrei D
; APPLICANT: Parinov, Sergei V
; APPLICANT: Barsky, Victor E
; APPLICANT: Kirillov, Eugene V
; APPLICANT: Dubiley, Svetlana A
; TITLE OF INVENTION: Use of Continuous/Contiguous
; TITLE OF INVENTION: Stacking Hybridization as a Diagnostic Tool.
; NUMBER OF SEQUENCES: 88
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CHERSKOV & FLAYNIK
; STREET: 20 N. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage
; COMPUTER: PC
; OPERATING SYSTEM: Microsoft Windows 98
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/498,851
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/855,372
; FILING DATE: 13-MAY-97
```

APPLICATION NUMBER: U.S. 08/587,332
FILING DATE: 16-JAN-96
ATTORNEY/AGENT INFORMATION:
NAME: Cherskov, Michael J.
REGISTRATION NUMBER: 33,664
REFERENCE/DOCKET NUMBER: ANL-IN-95-027
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 621-1330
TELEFAX: (312) 621-0088
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 bases
TYPE: nucleic acid
STRANDEDNESS: No. 6440671 Applicable
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: yes
US-09-498-851-6

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1021 CTGCCCA 1027
Db 1 CTGCCCA 7

RESULT 34
US-08-068-945A-36/c
Sequence 36, Application US/08068945A
Patent No. 5616483
GENERAL INFORMATION:
APPLICANT: Bjursell, Gunnar
APPLICANT: Carlsson, Peter
APPLICANT: Enerback, Sven
APPLICANT: Hansson, Lennart
APPLICANT: Lidberg, Ulf
APPLICANT: Nilsson, Jeanette
APPLICANT: Tornell, Jan
TITLE OF INVENTION: New DNA Sequences
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: White & Case
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States
ZIP: 10036-2787
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/068,945A
FILING DATE: 27-MAY-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201809-2
FILING DATE: 11-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201826-6
FILING DATE: 12-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9202088-2
FILING DATE: 03-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9300902-5
FILING DATE: 19-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Sterner, Richard J.
REGISTRATION NUMBER: 35,372

REFERENCE/DOCKET NUMBER: 1103326-052
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)819-8783
TELEFAX: (212)354-8113
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-068-945A-36

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAA 1031
Db 8 CCAAGAA 2

RESULT 35
US-08-442-806-36/c
Sequence 36, Application US/08442806
Patent No. 5716817
GENERAL INFORMATION:
APPLICANT: Bjursell, Gunnar
APPLICANT: Carlsson, Peter
APPLICANT: Enerback, Sven
APPLICANT: Hansson, Lennart
APPLICANT: Lidberg, Ulf
APPLICANT: Nilsson, Jeanette
APPLICANT: Tornell, Jan
TITLE OF INVENTION: Genomic DNA Sequences
TITLE OF INVENTION: Encoding Human BSSL/CEL
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: White & Case
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States
ZIP: 10036-2787
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,806
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201809-2
FILING DATE: 11-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201826-6
FILING DATE: 12-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9202088-2
FILING DATE: 03-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9300902-5
FILING DATE: 19-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Sterner, Richard J.
REGISTRATION NUMBER: 35,372
REFERENCE/DOCKET NUMBER: 1103326-052

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 819-8783
; TELEFAX: (212) 354-8113
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-442-806-36

```

```

Query Match          35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1025 CCAAGAA 1031
      |||||
Db       8 CCAAGAA 2

```

```

RESULT 36
US-09-063-450-10
; Sequence 10, Application US/09063450
; Patent No. 6109776
; GENERAL INFORMATION:
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Method and System for Computationally Identifying
;   TITLE OF INVENTION: Clusters within a Set of Sequences
; FILE REFERENCE: 77001.002
; CURRENT APPLICATION NUMBER: US/09/063,450
; CURRENT FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 10
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:example
; OTHER INFORMATION: sequence illustrating a computational methodology
US-09-063-450-10

```

```

Query Match          35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1029 GAAGGTG 1035
      |||||
Db       3 GAAGGTG 9

```

```

Search completed: December 3, 2004, 11:41:57
Job time : 1 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:43:49 ; Search time 0.001 Seconds
(without alignments)
21.120 Million cell updates/sec

Title: us-10-024-369-3
Perfect score: 20
Sequence: 1 cttctgcccaagaagtg99 20

Scoring table: IDENTITY NUC
Gap0 10.0 , Gapext 0.5

Searched: 50 seqs, 528 residues

Total number of hits satisfying chosen parameters: 100

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : rnpbdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	1	US-10-024-369-47
2	12.8	64.0	17	1	US-09-930-423-674
3	12.8	64.0	17	1	US-09-745-237A-674
4	12	60.0	15	1	US-09-775-818-2
5	12	60.0	15	1	US-10-663-999-2
6	9.4	47.0	12	1	US-10-661-165-445
7	9	45.0	10	1	US-10-033-145-930
8	9	45.0	10	1	US-10-033-145-1231
9	9	45.0	11	1	US-09-862-847-15
10	9	45.0	11	1	US-10-033-145-262
11	8.4	42.0	10	1	US-10-033-145-437
12	8.4	42.0	10	1	US-10-033-145-437
13	8.4	42.0	10	1	US-10-033-145-2081
14	8.4	42.0	10	1	US-10-057-726-3
15	8.4	42.0	10	1	US-10-330-627-713
16	8.4	42.0	10	1	US-10-293-222-330
17	8.4	42.0	10	1	US-10-660-253-84
18	8.4	42.0	10	1	US-10-670-011-398
19	8.4	42.0	11	1	US-09-772-719-73
20	8.4	42.0	11	1	US-09-967-237-70
21	8.4	42.0	11	1	US-10-450-797-170
22	8.4	42.0	11	1	US-10-450-797-1255
23	8.4	42.0	11	1	US-10-450-797-1255
24	8.4	40.0	9	1	US-09-989-789-2078
25	8.4	40.0	9	1	US-09-989-789-2079
26	8.4	40.0	9	1	US-09-989-789-2262
27	8.4	40.0	9	1	US-09-989-789-2263
28	8.4	40.0	9	1	US-09-846-033B-7
29	8.4	40.0	9	1	US-09-990-186-2078
30	8.4	40.0	9	1	US-09-990-186-2079
31	8.4	40.0	9	1	US-09-990-186-2262
32	8.4	40.0	9	1	US-09-990-186-2263
33	8.4	40.0	9	1	US-09-989-994-2078

34	8	40.0	9	1	US-09-989-994-2079	Sequence 2079, Ap
35	8	40.0	9	1	US-09-989-994-2262	Sequence 2262, Ap
36	8	40.0	9	1	US-09-989-994-2263	Sequence 2263, Ap
37	8	40.0	9	1	US-10-006-069A-7	Sequence 7, Appl
38	8	40.0	10	1	US-10-033-145-198	Sequence 198, App
39	8	40.0	10	1	US-10-033-145-198	Sequence 198, App
40	8	40.0	10	1	US-10-033-145-296	Sequence 296, App
41	8	40.0	10	1	US-10-033-145-298	Sequence 298, App
42	8	40.0	10	1	US-10-033-145-701	Sequence 701, App
43	8	40.0	10	1	US-10-033-145-1370	Sequence 1370, Ap
44	8	40.0	10	1	US-10-033-145-1792	Sequence 1792, Ap
45	8	40.0	10	1	US-10-033-145-1806	Sequence 1806, Ap
46	8	40.0	10	1	US-10-033-145-1979	Sequence 1979, Ap
47	8	40.0	10	1	US-10-010-802-281	Sequence 281, App
48	8	40.0	10	1	US-10-330-627-132	Sequence 132, App
49	8	40.0	10	1	US-10-330-627-1157	Sequence 1157, Ap
50	8	40.0	10	1	US-10-293-222-324	Sequence 324, App
					US-10-215-982-360	Sequence 360, App

ALIGNMENTS

```
RESULT 1
US-10-024-369-47/c
; Sequence 47, Application US/10024369
; Publication No. US20030134809A1
; GENERAL INFORMATION:
; APPLICANT: Alexander H. Borchers
; APPLICANT: Donna T. Ward
; TITLE OF INVENTION: ANTISENSE MODULATION OF ABC TRANSPORTER MHC 1 EXPRESSION
; FILE REFERENCE: RTS-0353
; CURRENT APPLICATION NUMBER: US/10/024,369
; CURRENT FILING DATE: 2001-12-17
; NUMBER OF SEQ ID NOS: 91
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-024-369-47

Query Match      100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1018 CTTCTGCCCAAGAAGTGGG 1037
Db       20 CTTCTGCCCAAGAAGTGGG 1

RESULT 2
US-09-930-423-674
; Sequence 674, Application US/09930423
; Publication No. US20030092003A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Blatte, Larry
; APPLICANT: McSwiggan, Jim
; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
; FILE REFERENCE: MBH00.918-A.400/027
; CURRENT APPLICATION NUMBER: US/09/930,423
; CURRENT FILING DATE: 2001-08-15
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 674
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo Sapiens
; US-09-930-423-674

Query Match      64.0%; Score 12.8; DB 1; Length 17;
```

Best local similarity 68.8%; Pred. No. 2.9;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1020 TGTGCCCAAGAGTG 1035
: : ||||| : :
Db 2 UUGCCCAAGAAAG 17

RESULT 3

US-09-745-237A-674
Sequence 674, Application US/09745237A
Publication No. US20030143708A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Blact, Larry
APPLICANT: McSwigen, Jim
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
FILE REFERENCE: 400/007 (MBH00-918-A)
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 4550
SOFTWARE: PatentIn version 3.0
SEQ ID NO 674
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
US-09-745-237A-674

Query Match 64.0%; Score 12.8; DB 1; Length 17;
Best local similarity 68.8%; Pred. No. 2.9;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1020 TGTGCCCAAGAGTG 1035
: : ||||| : :
Db 2 UUGCCCAAGAAAG 17

RESULT 4

US-09-775-818-2/c
Sequence 2, Application US/09775818
Patent No. US20010044100A1
GENERAL INFORMATION:
APPLICANT: Laboratory of Molecular Biophotonics
TITLE OF INVENTION: Method for selectively separating live cells expressing
FILE REFERENCE: PP00-0043-00
CURRENT APPLICATION NUMBER: US/09/775, 818
CURRENT FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: JP 2000/028117
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: JP 2000/130793
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 15
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Probe
US-09-775-818-2

Query Match 60.0%; Score 12; DB 1; Length 15;
Best local similarity 100.0%; Pred. No. 3.7;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAGG 1033
: : ||||| : :
Db 14 TGCCCAAGAGG 3

RESULT 5
US-10-663-999-2/c

Sequence 2, Application US/10663999
Publication No. US20040161771A1
GENERAL INFORMATION:
APPLICANT: Laboratory of Molecular Biophotonics
TITLE OF INVENTION: Method for selectively separating live cells expressing
FILE REFERENCE: PP00-0043-00
CURRENT APPLICATION NUMBER: US/10/663, 999
CURRENT FILING DATE: 2003-09-16
PRIOR APPLICATION NUMBER: US/09/775, 818
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: JP 2000/028117
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: JP 2000/130793
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 15
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Probe
US-10-663-999-2

Query Match 60.0%; Score 12; DB 1; Length 15;
Best local similarity 100.0%; Pred. No. 3.7;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAGG 1033
: : ||||| : :
Db 14 TGCCCAAGAGG 3

RESULT 6

US-10-661-165-445
Sequence 445, Application US/10661165
Publication No. US20040137470A1
GENERAL INFORMATION:
APPLICANT: Dhalan, Ravinder S.
TITLE OF INVENTION: METHODS FOR DETECTION OF GENETIC
FILE REFERENCE: 543312000420
CURRENT APPLICATION NUMBER: US/10/661,165
CURRENT FILING DATE: 2003-09-11
PRIOR APPLICATION NUMBER: PCT/US03/06198
PRIOR FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/378,354
PRIOR FILING DATE: 2002-05-08
PRIOR APPLICATION NUMBER: US 10/093,618
PRIOR FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US 60/360,232
PRIOR FILING DATE: 2002-03-01
PRIOR APPLICATION NUMBER: PCT/US03/27308
PRIOR FILING DATE: 2003-08-29
PRIOR APPLICATION NUMBER: US 10/376,770
PRIOR FILING DATE: 2003-02-28
NUMBER OF SEQ ID NOS: 628
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 445
LENGTH: 12
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Primer
US-10-661-165-445

Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best local similarity 90.9%; Pred. No. 10;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1018 CTTGCCCA 1028
: : ||||| : :
Db 14 CTTGCCCA 3

```
Db          2  CTACTGCCCAA 12

RESULT 7
US-10-033-145-410
; Sequence 410, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 410
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-410

Query Match          45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1029 GAAGGTGGG 1037
Db          1  GAAGGTGGG 9

RESULT 8
US-10-033-145-930
; Sequence 930, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 930
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-930

Query Match          45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1019 TTCTGCCCA 1027
Db          2  TTCTGCCCA 10

RESULT 9
US-10-033-145-1231
; Sequence 1231, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS

; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0

; OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15

Query Match          45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1025 CCAAGGAGG 1033
Db          10  CCAAGGAGG 2

RESULT 10
US-09-862-847-15/c
; Sequence 15, Application US/09862847
; Patent No. US2002017230A1
; GENERAL INFORMATION:
; APPLICANT: Batic, Ralph S.
; APPLICANT: Boyd, Yount
; TITLE OF INVENTION: DIRECTION ASSEMBLY OF LARGE VIRAL GENOMES AND CHROMOSOMES
; FILE REFERENCE: 5470.270
; CURRENT APPLICATION NUMBER: US/09/862,847
; CURRENT FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/206,537
; PRIOR FILING DATE: 2000-05-21
; PRIOR APPLICATION NUMBER: US 60/285,320
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15

Query Match          45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1028 AGAAGGTGG 1036
Db          2  AGAAGGTGG 10

RESULT 11
US-10-033-145-262/c
; Sequence 262, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
```

SEQ ID NO 262
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-262

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
DB 10 TGCCCAAGCA 1

RESULT 12
US-10-033-145-437/c
Sequence 437, Application US/10033145
Publication No. US20020151515A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033.145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 437
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-437

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1036
DB 10 AAGCAGGTGG 1

RESULT 13
US-10-033-145-2081
Sequence 2081, Application US/10033145
Publication No. US20020151515A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033.145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2081
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-2081

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037

DB 1 AGAGGTGGG 10

RESULT 14
US-10-057-726-3/c
Sequence 3, Application US/10057726
Publication No. US20030017549A1
GENERAL INFORMATION:
APPLICANT: Owens, Gary K.
APPLICANT: Manabe, Ichiro
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR EXPRESSING POLYNUCLEOTIDES SPECIFICALLY IN SMOOTH MUSCLE CELLS IN VIVO
FILE REFERENCE: 021258-000200US
CURRENT APPLICATION NUMBER: US/10/057.726
CURRENT FILING DATE: 2002-06-24
PRIOR APPLICATION NUMBER: US 60/263,811
PRIOR FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: US 09/600,319
PRIOR FILING DATE: 2000-07-13
PRIOR APPLICATION NUMBER: WO PCT/US99/01038
PRIOR FILING DATE: 1999-01-15
PRIOR APPLICATION NUMBER: US 60/071,300
PRIOR FILING DATE: 1998-01-16
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Carg2 sequence
US-10-057-726-3

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1024 CCCAAGAGG 1033
DB 10 CCCAAGAGG 1

RESULT 15
US-10-330-627-713
Sequence 713, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velulescu, Victor E.
APPLICANT: Kinzler, Kenneth W.
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330.627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 713
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-330-627-713

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAAGAG 1032
DB 1 GCACAAAGAG 10

RESULT 16
US-10-293-222-330
; Sequence 330, Application US/10293222
; Publication No. US20040033932A1
; GENERAL INFORMATION:
; APPLICANT: Versteeg, Rogier
; APPLICANT: Caron, Hubertus N.
; TITLE OF INVENTION: MYC targets
; FILE REFERENCE: 2183-558005
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: PCT/NL01/00361
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: EP 00201698.8
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: EP 00202284.6
; PRIOR FILING DATE: 2000-06-29
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 330
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-293-222-330

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAGAG 1032
DB 1 GCACAGAG 10

RESULT 17
US-10-660-253-84/c
; Sequence 84, Application US/10660253
; Publication No. US2004011505A1
; GENERAL INFORMATION:
; APPLICANT: Behlke, Mark A.
; APPLICANT: Lingyan, Huang
; APPLICANT: Owczary, Richard
; APPLICANT: Walder, Joseph A.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR ESTIMATING THE MELTING TEMPERATURE (Tm) F
; FILE REFERENCE: 03988/100K297-US1
; CURRENT APPLICATION NUMBER: US/10/660,253
; CURRENT FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: US 60/410,663
; PRIOR FILING DATE: 2002-09-12
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 84
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-660-253-84

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAAGTGG 1036
DB 10 AAGAAGTGG 1

RESULT 18
US-10-670-011-398/c

; Sequence 398, Application US/10670011
; Publication No. US20040209832A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Beigelman, Leonid
; APPLICANT: Pavco, Pamela
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Vascular Endothelial
; TITLE OF INVENTION: Growth Factor and Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: 400/132 (MBH02-742-G)
; CURRENT FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: PCT/US03/05022
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US60/393,796
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: US60/399,348
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: US60/406,784
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US60/408,378
; PRIOR FILING DATE: 2002-09-05
; PRIOR APPLICATION NUMBER: US60/409,293
; PRIOR FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: US60/440,129
; PRIOR FILING DATE: 2003-01-15
; Remaining Prior Application data removed - See File Wrapper or PAM.
; NUMBER OF SEQ ID NOS: 427
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 398
; LENGTH: 10
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense seq
US-10-670-011-398

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1020 TCTGCCAG 1029
DB 10 TCTGCCAG 1

RESULT 19
US-09-772-719-73
; Sequence 73, Application US/09772719
; Patent No. US20020137910A1
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MY Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 369 Pine Street
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/772,719
FILING DATE: 30-JAN-2001
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-09-772-719-73
```

```
Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1028 AGAAGTGGG 1037
          |||||
Db      1 AGCAGTGGG 10
```

```
RESULT 20
US-09-967-237-73
; Sequence 73, Application US/09967237
; Publication No. US20030049828A1
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: NM Gene and Protein
; FILE REFERENCE: D-0021-SB-2
; CURRENT APPLICATION NUMBER: US/09/967,237
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 09/178,115
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 73
; LENGTH: 11
; TYPE: DNA
; ORGANISM: HUMAN
US-09-967-237-73
```

```
Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1028 AGAAGTGGG 1037
          |||||
Db      1 AGCAGTGGG 10
```

```
RESULT 21
US-10-450-797-170
; Sequence 170, Application US/10450797
; Publication No. US20040142335A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Petersohn, Dirk
; APPLICANT: Conradt, Marcus
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 170
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-170
```

```
Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1027 AAGAAGTGG 1036
          |||||
Db      2 AAGAAGTGG 11
```

```
RESULT 22
US-10-450-797-1255/C
; Sequence 1255, Application US/10450797
; Publication No. US20040142335A1
; GENERAL INFORMATION:
; APPLICANT: Petersohn, Dirk
; APPLICANT: Conradt, Marcus
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1255
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-1255
```

```
Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1026 CAAGAAGTG 1035
          |||||
Db      11 CAGAAGGTG 2
```

```
RESULT 23
US-10-450-797-1259/C
; Sequence 1259, Application US/10450797
; Publication No. US20040142335A1
; GENERAL INFORMATION:
; APPLICANT: Petersohn, Dirk
; APPLICANT: Petersohn, Marcus
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; CURRENT FILING DATE: 2003-12-04
```

```

; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1259
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-1259

Query Match          42.0%; Score 8; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1026 CAGAGAGGTG 1035
Db      11 CAATAGAGGTG 2

RESULT 24
US-09-989-789-2078
; Sequence 2078, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2078
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2078

Query Match          40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1030 AAGGTGGG 1037
Db      1 AAGGTGGG 8

RESULT 25
US-09-989-789-2079
; Sequence 2079, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2079
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2079
```

```

Query Match          40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1030 AAGGTGGG 1037
Db      1 AAGGTGGG 8

RESULT 26
US-09-989-789-2262
; Sequence 2262, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2262
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2262

Query Match          40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1028 AGAAGGTG 1035
Db      2 AGAAGGTG 9

RESULT 27
US-09-989-789-2263
; Sequence 2263, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2263
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2263

Query Match          40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1028 AGAAGGTG 1035
Db      2 AGAAGGTG 9

RESULT 28
```

US-09-846-033B-7/c
; Sequence 7, Application US/09846033B
; Publication No. US2003004404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: target
US-09-846-033B-7

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1020 TCTGCCCA 1027
|||
Db 8 TCTGCCCA 1

RESULT 29
US-09-990-186-2078
; Sequence 2078, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2078
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2078

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1030 AAGGTGGG 1037
|||
Db 1 AAGGTGGG 8

RESULT 30
US-09-990-186-2079

; Sequence 2079, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2079
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2079

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1030 AAGGTGGG 1037
|||
Db 1 AAGGTGGG 8

RESULT 31
US-09-990-186-2262
; Sequence 2262, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2262
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2262

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGGTG 1035
|||
Db 2 AGAAGGTG 9

RESULT 32
US-09-990-186-2263
; Sequence 2263, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2263
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2263

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
DB 2 AGAAGTG 9

RESULT 33
US-09-989-994-2078
Sequence 2078, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2078
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2078

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGG 1037
DB 1 AAGGTGG 8

RESULT 34
US-09-989-994-2079
Sequence 2079, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2079
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2079

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1030 AAGGTGG 1037
DB 1 AAGGTGG 8

RESULT 35
US-09-989-994-2262
Sequence 2262, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2262
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2262

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
DB 2 AGAAGTG 9

RESULT 36
US-09-989-994-2263
Sequence 2263, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2263
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2263

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
DB 2 AGAAGTG 9

RESULT 37
US-10-006-069A-7/c
Sequence 7, Application US/10006069A
Publication No. US20030021776A1

```
/ GENERAL INFORMATION:
/ APPLICANT: Rebar, Edward
/ APPLICANT: Jamieson, Andrew
/ APPLICANT: Liu, Qiang
/ APPLICANT: Liu, Pei-Qi
/ APPLICANT: Wolfe, Alan
/ APPLICANT: Eisenberg, Stephen P.
/ APPLICANT: Sangamo Biosciences, Inc.
/ TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
/ TITLE OF INVENTION: Finger Proteins
/ FILE REFERENCE: 019496-005830US
/ CURRENT FILING DATE: 2001-12-17
/ PRIOR FILING DATE: 2000-12-07
/ PRIOR APPLICATION NUMBER: US 09/733,604
/ PRIOR FILING DATE: 2000-12-07
/ PRIOR APPLICATION NUMBER: US 09/736,083
/ PRIOR FILING DATE: 2000-12-12
/ PRIOR APPLICATION NUMBER: US 09/846,033
/ PRIOR FILING DATE: 2001-04-30
/ NUMBER OF SEQ ID NOS: 252
/ SOFTWARE: PastSeq for Windows Version 3.0
/ SEQ ID NO 7
/ LENGTH: 9
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: target
US-10-006-069A-7
```

```
Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1020 TCTGCCCA 1027
Db      8 TCTGCCCA 1
```

```
RESULT 38
US-10-033-145-198/c
/ Sequence 198, Application US/10033145
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR FILING DATE: 1999-06-18
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
/ NUMBER OF SEQ ID NOS: 2137
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 198
/ LENGTH: 10
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-033-145-198
```

```
Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1019 TTCTGCC 1026
Db      8 TTCTGCC 1
```

```
RESULT 39
US-10-033-145-296/c
/ Sequence 296, Application US/10033145
```

```
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR FILING DATE: 1999-06-18
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
/ NUMBER OF SEQ ID NOS: 2137
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 296
/ LENGTH: 10
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-033-145-296
```

```
Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1028 AGAAGGTG 1035
Db      9 AGAAGGTG 2
```

```
RESULT 40
US-10-033-145-298/c
/ Sequence 298, Application US/10033145
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR FILING DATE: 1999-06-18
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
/ NUMBER OF SEQ ID NOS: 2137
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 298
/ LENGTH: 10
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-033-145-298
```

```
Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1030 AAGGTGG 1037
Db      10 AAGGTGG 3
```

```
RESULT 41
US-10-033-145-701
/ Sequence 701, Application US/10033145
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR FILING DATE: 1999-06-18
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
```

NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 701
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-701

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1025
Db 2 CTTCTGCC 9

RESULT 42
US-10-033-145-1370/c
Sequence 1370, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1370
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1370

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1025
Db 8 CTTCTGCC 1

RESULT 43
US-10-033-145-1792/c
Sequence 1792, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1792
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1792

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1026 CAGAAGG 1033
Db 8 CAGAAGG 1

RESULT 44
US-10-033-145-1806
Sequence 1806, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1806
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1806

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1025
Db 2 CTTCTGCC 9

RESULT 45
US-10-033-145-1979
Sequence 1979, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1979
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1979

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 GAAGGTGG 1036
Db 2 GAAGGTGG 9

RESULT 46
US-10-010-802-281
Sequence 281, Application US/10010802
Publication No. US20030078220A1
GENERAL INFORMATION:

```
; APPLICANT: Genaisance Pharmaceuticals
; APPLICANT: Chew, Anne
; APPLICANT: Denton, R. Rex
; APPLICANT: Duda, Amy
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Stephens, J. Claiborne
; APPLICANT: Windemuth, Andreas
; TITLE OF INVENTION: Drug Target Isogenes: Polymorphisms in the Interleukin
; FILE REFERENCE: MMH-0002US2 I14R alpha
; CURRENT APPLICATION NUMBER: US/10/010,802
; CURRENT FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: PCT/US00/19094
; PRIOR FILING DATE: 2000-07-13
; NUMBER OF SEQ ID NOS: 413
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 281
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-010-802-281
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```
Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1029 GAAGGTGG 1036
DB      3 GAAGGTGG 10
```

```
RESULT 47
US-10-330-627-132/c
; Sequence 132, Application US/10330627
; Publication No. US20030175771A1
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 132
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-132
```

```
Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1026 CAAGAGG 1033
DB      8 CAAGAGG 1
```

```
RESULT 48
US-10-330-627-1157
; Sequence 1157, Application US/10330627
; Publication No. US20030175771A1
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
```

```
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1157
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-1157
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```
Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1028 AGAAGGTG 1035
DB      3 AGAAGGTG 10
```

```
RESULT 49
US-10-293-222-324
; Sequence 324, Application US/10293222
; Publication No. US2004003932A1
; GENERAL INFORMATION:
; APPLICANT: Versteeg, Rogier
; APPLICANT: Caron, Hubertus N.
; TITLE OF INVENTION: MYC targets
; FILE REFERENCE: 2183-5580US
; CURRENT APPLICATION NUMBER: US/10/293,222
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: PCT/NL01/00361
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: EP 00201698.8
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: EP 00202284.6
; PRIOR FILING DATE: 2000-06-29
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 324
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-293-222-324
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Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1018 CTTCTGCC 1025
DB      2 CTTCTGCC 9
```

```
RESULT 50
US-10-215-982-360/c
; Sequence 360, Application US/10215982
; Publication No. US20040219523A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Martin
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, Nobuko
; APPLICANT: Kurz, Markus
; APPLICANT: Keefe, Tony
; APPLICANT: Wilson, Charles
; APPLICANT: Grate, Dilara
; APPLICANT: Marshall, Kristin
; APPLICANT: McCauley, Thomas
; APPLICANT: Kurz, Jeffrey
; TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
; FILE REFERENCE: 23239-501 CIP
; CURRENT APPLICATION NUMBER: US/10/215,982
; CURRENT FILING DATE: 2002-08-09
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; PRIOR APPLICATION NUMBER: 60/232,454
 ; PRIOR FILING DATE: 2000-09-13
 ; PRIOR APPLICATION NUMBER: 09/952,680
 ; PRIOR FILING DATE: 2001-09-13
 ; PRIOR APPLICATION NUMBER: 60/311,378
 ; PRIOR FILING DATE: 2001-08-09
 ; PRIOR APPLICATION NUMBER: 60/313,932
 ; PRIOR FILING DATE: 2001-08-21
 ; PRIOR APPLICATION NUMBER: 60/338,186
 ; PRIOR FILING DATE: 2001-11-13
 ; PRIOR APPLICATION NUMBER: 60/349,959
 ; PRIOR FILING DATE: 2002-01-18
 ; PRIOR APPLICATION NUMBER: 60/364,486
 ; PRIOR FILING DATE: 2002-03-13
 ; PRIOR APPLICATION NUMBER: 60/376,744
 ; PRIOR FILING DATE: 2002-05-01
 ; PRIOR APPLICATION NUMBER: 60/367,991
 ; PRIOR FILING DATE: 2002-03-25
 ; PRIOR APPLICATION NUMBER: 60/369,887
 ; PRIOR FILING DATE: 2002-04-04
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 372
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 360
 ; LENGTH: 10
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Exon 1, the
 ; OTHER INFORMATION: 5'-exon
 US-10-215-982-360

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Freq. No. 17;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1024 CCCNAGAA 1031
 Db 9 CCCNAGAA 2

Search completed: December 3, 2004, 11:43:49
 Job time: 0.001 secs

This Page Blank (uspto)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:48:01 ; Search time 0.001 Seconds
(without alignments)
0.640 Million cell updates/sec

Title: us-10-024-369-3

Sequence: 1 ctctgcacgaagagtg99 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 2 seqs, 16 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 2 summaries

Database : rscdb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	7	35.0	8	1	CL677992
2	6	30.0	8	1	CA851350

ALIGNMENTS

RESULT 1
CL677992/c
LOCUS
DEFINITION
PR0121d.B07_2 - PR0121d.BR (8) Mixed stage f0smid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.
CL677992
CL677992.1 GI:50184054
GSS.
Pristionchus pacificus
Pristionchus pacificus
Eukaryota; Metazoa; Nematoda; Chromodorea; Diplogasterida; Neodiplogasteridae; Pristionchus.
1 (bases 1 to 8)
Strinivasan,V., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
Appadb: an Acedb database for the nematode satellite organism Pristionchus pacificus
Nucleic Acids Res. 32 (1), D421-D422 (2004)
Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@uebingen.mpg.de
This library was generated at Caltech, Pasadena, USA and end

sequenced at Vancouver, Canada.

Seq primer: T7
Class: f0smid ends

FEATURES

source

Location/Qualifiers

1..8
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
/clone_lib="Mixed stage f0smid library of P. pacificus var. California"
/note="Vector: pepifos-5 f0smid vector"

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 GAAGTG 1035

Db 7 GAAGTG 1

RESULT 2
CA851350
LOCUS
DEFINITION
D12G08 N20.14.ab1 cDNA Peking library 2, 4 day SCN3 Glycine max
cDNA clone D12G08 5', mRNA sequence.
ACCESSION
CA851350
VERSION
CA851350.1 GI:33388143
KEYWORDS
EST.
SOURCE
Glycine max (soybean)
ORGANISM
Glycine max

REFERENCE
Alkharouf,N.W., Khan,R. and Matthews,B.F.
Analysis of expressed sequence tags from roots of resistant soybean infected by the soybean cyst nematode
Unpublished (2002)
Contact: Alkharouf, N.W.
Soybean Genomics and Improvement Laboratory (SGIL)
US Department of Agriculture (USDA), ARS, PSI
Bldg. 006, Rm 118, 10300 Baltimore Ave., Beltsville, MD 20705-2350,
USA
Tel: 301 504 5750
Fax: 301 504 5728
Email: alkharouf@ba.ars.usda.gov.

JOURNAL
COMMENT

FEATURES

source

Location/Qualifiers

1..8
/organism="Glycine max"
/mol_type="mRNA"
/cultivar="Peking"
/db_xref="taxon:3847"
/clone="D12G08"
/tissue_type="Roots"
/dev_stage="Seedlings"
/clone_lib="cDNA Peking library 2, 4 day SCN3"
/note="Vector: pBluescript SK-; cDNA clones from mRNA extracted from Peking roots 2 and 4 days post invasion."

Query Match 30.0%; Score 6; DB 1; Length 8;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1024 CCCAAG 1030

Db 2 CCCAAG 8

Search completed: December 3, 2004, 11:48:01
Job time : 0.001 secs

